



# SAFETY DATA SHEET

Preparation Date: 04/14/2015 Revision date 2/8/2019 Revision Number: G2

# 1. IDENTIFICATION

**Product identifier** 

Product code: C1508

Product Name: CYCLOHEXANONE, TECHNICAL

Other means of identification

Synonyms: Anon

Anone

Cicloesanone (Italian) Cyclohexanone Cyclohexyl ketone Cyclohexylsanon (Polish)

Hexanon Hytrol O

Ketohexamethylene

Nadone NCI-C55005 Pimelic ketone Pimelin ketone

RCRA waste number U057

CAS #: 108-94-1
RTECS # GW1050000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Solvent.

Uses advised against No information available

<u>Supplier:</u> Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

# 2. HAZARDS IDENTIFICATION

#### Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral Category 4

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Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable liquids	Category 3

#### Label elements

### Warning

#### Hazard statements

Harmful if swallowed

Harmful in contact with skin

Harmful if inhaled

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation. May cause drowsiness or dizziness

May be fatal if swallowed and enters airways

Flammable liquid and vapor



# Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

May be harmful if inhaled

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Wear protective gloves

Wear eye/face protection

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## **Precautionary Statements - Response**

In case of fire: Use CO2, dry chemical, or foam to extinguish.

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.

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you

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feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

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

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Cyclohexanone	108-94-1	100

# 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222. Ensure that medical personnel are aware of the material(s)

involved and take precautions to protect themselves.

**Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water

for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate

medical attention is required.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

### Most important symptoms and effects, both acute and delayed

**Symptoms** Causes skin irritation

Causes serious eye irritation

Aspiration hazard if swallowed - can enter the lungs and cause damage

May be fatal if swallowed and enters airways

Irritating to respiratory system

Aspiration into the lungs may cause chemical pneumonitis Aspiration into the lungs may cause pulmonary edema

Central nervous system effects May cause drowsiness or dizziness

Headache Ataxia

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea

May affect the liver It may affect the kidneys

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of

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contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Use water spray, mist, alcohol-resistant foam, Dry

chemical or Carbon dioxide (CO2).

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter

and spread fire.

Specific hazards arising from the chemical

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

**Specific hazards** Flammable. May be ignited by heat, sparks or flames.

Vapors may form explosive mixtures with air. Vapor may travel considerable distance to source of ignition and flash back. Cyclohexanone forms explosive reaction with nitric acid at 75 deg C. Reaction of cyclohexanone with hydrogen peroxide + nitric acid forms an explosive

peroxide.

**Special Protective Actions for Firefighters** 

Specific Methods: Water mist may be used to cool closed containers For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out

**Special Protective Equipment 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. Use personal protective equipment. Keep people away from

and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

**Environmental precautions** Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

**Methods for containment** Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a

suitable chemical waste container. In case of large spill, dike if needed. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Use only non-sparking tools. Clean contaminated surface

thoroughly.

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### 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

### Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. Do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Keep away from heat and sources of ignition. Store in a segregated and approved area.

# **Incompatible Materials:**

Oxidizing agents Acids Alkalis

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### National occupational exposure limits

#### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Cyclohexanone	108-94-1	50 ppm TWA 200 mg/m³ TWA	= 100 mg/m <sup>3</sup> TWA	= 50 ppm STEL	None

### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Cyclohexanone	108-94-1	= 20 ppm TWA = 80 mg/m <sup>3</sup> TWA	= 20 ppm TWA	20 ppm TWA	25 ppm TWAEV 100 mg/m³ TWAEV

### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Cyclohexanone	108-94-1	100 mg/m³ TWA	= 200 mg/m <sup>3</sup> TWA
·		25 ppm TWA	= 50 ppm TWA

### Appropriate engineering controls

Engineering measures to reduce exposure:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

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### **Personal Protective Equipment**

Goggles Eye protection:

Gloves Skin and body protection:

> Long sleeved clothing Chemical resistant apron

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color: Liquid Oily. Colorless.

Odor: **Taste Formula** Peppermint like. Acetone. No information available. C6-H10-O

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flash point (°C):

98.14 g/mol no data available 44°C

Flashpoint (°C/°F): Flash Point Tested according to: **Autoignition Temperature (°C/°F):** 

44°C/111°F Closed cup 420/788°F

Lower Explosion Limit (%): **Upper Explosion Limit (%):** Melting point/range(°C/°F):

-31°C/ -23.8°F 1.1% 9.4%

Decomposition temperature(°C/°F): Boiling point/range(°C/°F): **Bulk density:** 

No information available 155.6°C/312.1°F No information available

Density (g/cm3): Specific gravity:

No information available 0.9421 0.9421

Vapor pressure @ 20°C (kPa): Vapor density: **Evaporation rate:** 

40.6 (Ether=1) 0.7 3.4

VOC content (g/L): Odor threshold (ppm): **Partition coefficient** No information available

(n-octanol/water): 0.88 0.81

Viscosity: Miscibility: Solubility:

2.2 mPa.s (=cP) @ 25 deg C No information available Soluble in diethyl ether

Partially soluble in cold water Partially soluble in hot water

Solubility in Water: 150 g/l @ 10 deg.

C: 50q/l @ 30 deg. C

Soluble in Alcohol

Soluble in other common organic

solvents

# 10. STABILITY AND REACTIVITY

Reactivity

It can react vigorously with strong oxidizing materials

Reacts with amines, nitric acid, and other strong acids, strong alkalis (bases) such as sodium hydroxide or potassium hydroxide, strong oxidizing agents (perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine, fluorine)

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**Chemical stability** 

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Oxidizing agents

Acids Alkalis

Hazardous decomposition

products:

Carbon oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

# **Principal Routes of Exposure:**

Eyes. Ingestion. Inhalation. Skin.

### **Acute Toxicity**

# **Component Information**

Cyclohexanone
CAS No 108-94-1

LD50/oral/rat = 800 mg/kg Oral LD50 Rat

**LD50/oral/mouse** = 1400 mg/kg Oral LD50 Mouse

**LD50/dermal/rabbit** = 948 mg/kg Dermal LD50Rabbit

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = 8000 ppm Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

### **Product Information**

LD50/oral/rat =

Value - Acute Tox = 800 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 1400 mg/kg

LD50/dermal/rabbit

Value - Acute Tox = 948 mg/kg

LD50/dermal/rat

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#### **VALUE - Acute Tox Dermal =** No information available

LC50/inhalation/rat

VALUE-Vapor = 8000 ppm

VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** Causes skin irritation. It can be absorbed through the skin. Harmful in contact with

skin.

Eye Contact: Causes eye irritation. Symptoms may include stinging, tearing, redness. May

cause transient corneal injury.

**Inhalation** It causes respiratory tract (nose, throat) irritation at airborne concentrations of 50

ppm; and 75 ppm causes marked irritation; and 125 ppm causes significant irritation. Exposure to vapor or mist causes eye irritation. Causes conjunctivitis. Inhalation of vapors or mist can affect respiration, behavior/central nervous system

and cause central nervous system depression with nausea, headache,

lightheadedness, ataxia, somnolence, weakness, dizziness, loss of coordination. It

may cause kidney and liver damage.

**Ingestion** Harmful if swallowed. May cause gastrointestinal tract irritation with nausea,

vomiting, and diarrhea. May affect behavior/central nervous system

(convulsions/seizures, somnolence), respiration(dyspnea). May affect the kidneys. May affect liver. It may affect behavior/central nervous system and cause central nervous system depression characterized by excitement followed by headache, dizziness, drowsiness, nausea and other symptoms similar to inhalation. Advanced stages may cause collapse, unconsciousness, coma and possible death die to respiratory failure. Aspiration hazard if swallowed. Aspiration may

lead to pulmonary edema. Aspiration into the lungs can cause chemical

pneumonitis.

**Aspiration hazard** May be fatal if swallowed and enters airways.

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

Chronic Toxicity It can have a deffating effect on the skin. Long term exposure to high

concentration of vapors may cause clouding of the eyes. Prolonged or repeated ingestion or inhalation may affect respiration and behavior/central nervous system

with symptoms similar to that of acute inhalation. It may also cause kidney

damage and affect metabolism (weight loss).

**Sensitization:** No information available.

Mutagenic Effects: May affect genetic material

Mutagenic effects in mammalian somatic cells

Experiments with bacteria and/or yeast have shown mutagenic effects

Sister Chromatid Exchange: Hamster ovary (RTECS)

Cytogenic Analysis: human lymphocyte Cytogenic analysis - human leukocyte

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Carcinogenic effects: Not classifiable as to its carcinogenicity to humans.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Cyclohexanone		classifiable - Monograph 71 [1999]	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

No data is available Reproductive toxicity

**Reproductive Effects:** May cause adverse reproductive effects based on animal data

There is limited evidence that Cyclohexanone may damage the developing fetus.

No information on reproductive toxicity effects on humans was found

No information available **Developmental Effects:** Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure

STOT - repeated exposure

**Target Organs:** 

central nervous system. respiratory system.

No information available.

Liver, kidney, and respiratory system. Skin. Eyes. Central nervous system.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** Harmful to aquatic organisms.

Cyclohexanone - 108-94-1

Algae/aguatic plants

20 mg/L EC50 Chlorella vulgaris 96 h

Fish

8.9 mg/L LC50 Pimephales promelas 96 h 1

481-578 mg/L LC50 Pimephales promelas 96 h flow-through 1

800 mg/L EC50 Daphnia magna 24 h Crustacea

Persistence and degradability: Readily biodegradable (90%)

Bioaccumulative potential: No information available.

No information available Mobility in soil Other adverse effects No information available.

### 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** 

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### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Cyclohexanone	108-94-1	None	None	None	U057 Ignitable waste

# 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated Proper Shipping Name: Cyclohexanone

Hazard Class 3

Subsidiary Class
Packing group:
No information available
Emergency Response Guide
No information available

Number

Marine Pollutant

DOT RQ (lbs):

No data available

No information available

Special Provisions No Information available

**Symbol(s):** [DOT]: (R5) - Identifies a material that is a hazardous substance that has a

reportable quantity (RQ) of 5000 pounds (2270 Kilograms).

**Description:** UN1915,Cyclohexanone ,3,PG III

TDG (Canada)

**UN-No:** UN1915

Proper Shipping Name: Cyclohexanone

Hazard Class 3

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

**Description:** UN1915,CYCLOHEXANONE,3,PG III

**ADR** 

UN Number UN1915
Proper Shipping Name: Cyclohexanone

Transport hazard class(es) 3
Packing group |||

Subsidiary Risk:No information availableDescription:UN1915 Cyclohexanone,3,III

**IMDG** 

**UN-No:** UN1915

Proper Shipping Name: Cyclohexanone

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-E

**RID** 

UN Number UN1915

Proper Shipping Name: Cyclohexanone

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Transport hazard class(es) 3

Subsidiary Risk: No information available

Packing group

**Description:** UN1915 Cyclohexanone,3,III

ICAO (air)

**UN-No:** UN1915

Proper Shipping Name: Cyclohexanone

Hazard Class 3

Subsidiary Risk: No information available

Packing Group: III

**Description:** UN1915,Cyclohexanone,3,PG III

IATA

UN Number UN1915

Proper Shipping Name: Cyclohexanone

Transport hazard class(es) 3

Subsidiary Risk: No information available

Packing group III
Precautionary Statements - 3L

Response

Special Provisions No information available

**Description:** UN1915,Cyclohexanone,3,PG III

### 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Cyclohexanone	108-94-1	Present(ACTI VE)	Present KE-09188	Present	Present (3)-2376	Present	Present	Present 203-631-1

### **U.S. Regulations**

Cyclohexanone

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 0570

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

= 5000 lb RQ

= 1 lb RQ

Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present

FDA - 21 CFR - Total Food Additives 177.2250

- List Sourced from EAFUS

# California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive

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				Toxicity	Toxicity:
Cyclohexanone	108-94-1	Not Listed	Not Listed	Not Listed	Not Listed

# **CERCLA/SARA**

	Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
١	Cyclohexanone	108-94-1	= 2270 kg final RQ	None	None	None	None

### U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
		With Significant New Use Rules	Reporting
		(SNURS)	
Cyclohexanone	108-94-1	Not Applicable	10/04/1982 10/04/1992

#### Canada

### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Cyclohexanone 108-94-1 (100)

Component

WHMIS 2015 Hazard Classification
Flammable liquids - Category 3: H226 Flammable liquid and vapour.; Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin.; Acute toxicity - Inhalation - Category 4: H332 Harmful if inhaled.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Category 2A: H319 Causes serious eye irritation.; Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Cyclohexanone	108-94-1	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Cyclohexanone	108-94-1	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Cyclohexanone	108-94-1	Not listed

# **EU Classification**

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Cyclohexanone	108-94-1	, , ,

EU - CLP (1272/2008)

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### R-phrase(s)

R10 - Flammable

R20 - Harmful by inhalation

### S -phrase(s)

S25 - Avoid contact with eyes

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Cyclohexanone		R10 Xn; R20	25%<=C: Xn; R20	S2 S25

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

Xn - Harmful



# 16. OTHER INFORMATION

Preparation Date:04/14/2015Revision date2/8/2019Prepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

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