

# Acetone

34480-2.5L

Version 1.6

Revision Date 09.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier				
Product name	:	Acetone		
SDS-number	:	00000020241		
Type of product	:	Substance	Substance	
Remarks	:	SDS according to Art. 31 of Re	SDS according to Art. 31 of Regulation (EC) 1907/2006.	
Chemical name	:	acetone; propan-2-one; propan	one	
Index-No.	:	606-001-00-8		
REACH Registration Number	:	no data available		
1.2. Relevant identified us	es (	of the substance or mixture an	d uses advised against	
Use of the Substance/Mixture	:	Laboratory chemicals		
Uses advised against	:	none		
1.3. Details of the supplier	of	the safety data sheet		
Company	:	Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA	
Telephone For further information, please contact:	:	SafetyDataSheet@Honeywell.c	com	
1.4. Emergency telephone number				
Emergency telephone number Country based Poison Control Center	:	+1-703-527-3887 (ChemTrec-Transport) +1-303-389-1414 (Medical) see chapter 15.1		
		Page 1 / 19		



# Acetone

34480-2.5L

Version 1.6

Revision Date 09.05.2023

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **REGULATION (EC) No 1272/2008**

Flammable liquids Category 2 H225 Highly flammable liquid and vapour. Eye irritation Category 2 H319 Causes serious eye irritation. Specific target organ toxicity - single exposure Category 3 - Central nervous system H336 May cause drowsiness or dizziness.

#### 2.2. Label elements

#### REGULATION (EC) No 1272/2008

Hazard pictograms



Signal word :	Danger	
Hazard statements :	H225 H319 H336 EUH066	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.
Precautionary statements :	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
	P280	Wear protective gloves/ eye protection/ face protection.
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308 + P313	IF exposed or concerned: Get medical
	Page 2 / 19	

Page 2 / 19



# Acetone

34480-2.5L

Version 1.6

Revision Date 09.05.2023

advice/ attention.

### 2.3. Other hazards

Vapours may form explosive mixtures with air. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
acetone; propan-2-one; propanone	67-64-1 606-001-00-8 200-662-2	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	100 %	

#### 3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Page 3 / 19



# Acetone

34480-2.5L

Version 1.6

# Revision Date 09.05.2023

Inhalation:

Remove to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.

Skin contact:

After contact with skin, wash immediately with plenty of water. Call a physician if irritation develops or persists.

*Eye contact:* Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Consult a physician.

*Ingestion:* When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

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

No data available

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

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

Page 4 / 19



# Acetone

34480-2.5L

Version 1.6

Revision Date 09.05.2023

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) Dry powder

*Extinguishing media which shall not be used for safety reasons:* High volume water jet

#### 5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air. Heating will cause pressure rise with risk of bursting and subsequent explosion In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2)

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Apply foam in large quantities because some of it will be destroyed by the product. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### 6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Pick for disposal in tightly closed containers

Page 5 / 19



# Acetone

34480-2.5L

Version 1.6

Revision Date 09.05.2023

# 6.4. Reference to other sections

For personal protection see section 8.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling:

Exhaust ventilation at the object is necessary. Use explosion-proof equipment. Provide sufficient air exchange and/or exhaust in work rooms.

#### Advice on protection against fire and explosion:

The heavy vapours can overcome a considerable distance up to the source of ignition. Take measures to prevent the build up of electrostatic charge. Keep away from sources of ignition - No smoking.

Hygiene measures:

Take off all contaminated clothing immediately. Recommended preventive skin protection

# 7.2. Conditions for safe storage, including any incompatibilities

*Further information on storage conditions:* Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Recommended storage temperature: 10 - 25 °C.

# 7.3. Specific end use(s)

no additional data available

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# Acetone

34480-2.5L

Version 1.6

Revision Date 09.05.2023

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
acetone; propan-2-one; propanone	EH40 WEL STEL	3.620 mg/m3 1.500 ppm		
acetone; propan-2-one; propanone	EH40 WEL TWA	1.210 mg/m3 500 ppm		
acetone; propan-2-one; propanone	EU ELV TWA	1.210 mg/m3 500 ppm		Indicative

STEL - Short term exposure limit TWA - Time weighted average

#### **DNEL/ PNEC-Values**

Component	End- use/impact	Exposure duration	Value	Exposure routes	Remarks
acetone; propan-2-one; propanone	Workers / Long-term systemic effects		1210 mg/m3	Inhalation	
acetone; propan-2-one; propanone	Workers / Long-term systemic effects		62mg/kg bw/d	Ingestion	
acetone; propan-2-one; propanone	Workers / Long-term systemic effects		186mg/kg bw/d	Skin contact	
acetone; propan-2-one; propanone	Consumers / Long-term systemic effects		200 mg/m3	Inhalation	
acetone; propan-2-one; propanone	Workers / Acute local effects		2420 mg/m3	Inhalation	

Page 7 / 19

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



# Acetone

34480-2.5L

Version 1.6

# Revision Date 09.05.2023

acatana: propan 2 ana:	Consumers /	62mg/kg	Skin contact	
acetone; propan-2-one; propanone	Long-term	bw/d	Skin contact	
proparione	systemic	bw/u		
	effects			

Component	Environmental compartment / Value	Remarks
acetone; propan-2-one; propanone	Fresh water: 10,6 mg/l	
acetone; propan-2-one; propanone	Marine water: 1,06 mg/l	
acetone; propan-2-one; propanone	Fresh water sediment: 30,4 mg/l	
acetone; propan-2-one; propanone	Marine sediment: 3,04 mg/l	
acetone; propan-2-one; propanone	Soil: 29,5 mg/l	
acetone; propan-2-one; propanone	Sewage treatment plant: 100 mg/l	

#### 8.2. Exposure controls

#### **Occupational exposure controls**

Do not breathe vapours/dust. The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

#### Personal protective equipment

Respiratory protection: In the case of vapour formation use a respirator with an approved filter. Recommended Filter type: Organic gas and low boiling vapour type

Hand protection: Glove material: butyl-rubber Break through time: > 480 min Glove thickness: 0,7 mm Butoject® 898 Gloves must be inspected prior to use. Replace when worn.

Page 8 / 19



# Acetone

34480-2.5L

Version 1.6

Revision Date 09.05.2023

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

*Eye protection:* Safety goggles

*Skin and body protection:* Protective suit

#### **Environmental exposure controls**

Handle in accordance with local environmental regulations and good industrial practices.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	colourless
Odour	:	characteristic
Melting point/range	:	-95 °C
Boiling point/boiling range	:	55 - 57 °C at 1.013 hPa
Upper explosion limit	:	14,3 %(V)
Lower explosion limit	:	2,2 %(V)
Flash point	:	-17 °C Method: closed cup
		Page 9 / 19



cetone		
1480-2.5L		
Version 1.6 Revision Date 09.05.2023		
Auto-ignition temperature	: 465 °C Method: DIN 51794	
Decomposition temperature	<ul> <li>236 °C</li> <li>Decomposition temperature</li> <li>At normal pressure may be distilled without decomposition.</li> </ul>	
рН	: Not applicable	
Auto-ignition temperature	: not auto-flammable	
Viscosity, kinematic	: No data available	
Water solubility	: completely miscible	
Partition coefficient: n- octanol/water	: log Pow -0,24	
Vapour pressure	: ca. 240 hPa at 20 °C	
Vapour pressure	: 580 hPa at 50 °C	
Density	: 0,79 g/cm3 at 20 °C	
Relative vapour density	: No data available	
9.2 Other Information		
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	
Evaporation rate	: No data available	
Viscosity, dynamic	: 0,32 mPa.s at 20 °C	
	Page 10 / 19	



# Acetone

# 34480-2.5L

Version 1.6

Revision Date 09.05.2023

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

236 °C Decomposition temperature At normal pressure may be distilled without decomposition.

### 10.3. Possibility of hazardous reactions

Reacts with air to form peroxides. Vapours may form explosive mixture with air.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Plastic materials can be attacked. Strong oxidizing agents Bases Strong acids Alkali metals Alkaline earth metals

#### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute oral toxicity: LD50 Species: Rat Value: 5.800 mg/kg

Page 11 / 19



# Acetone

34480-2.5L

Version 1.6

### Revision Date 09.05.2023

Acute dermal toxicity: LD50 Species: Rat Value: > 7.400 mg/kg

Acute inhalation toxicity: LC50 Species: Rat Value: 76 mg/l Exposure time: 4 h

Skin irritation: Species: Rabbit Classification: slightly irritant Method: Draize Test

*Eye irritation:* Species: Rabbit Classification: Severe eye irritation

Respiratory or skin sensitisation: Species: Guinea pig Classification: non-sensitizing

Repeated dose toxicity: Species: Rat, male Application Route: Oral Exposure time: 90 d NOAEL 900 mg/kg Method: OECD Test Guideline 408

Carcinogenicity: Species: Mouse Note: Not classified due to data which are conclusive although insufficient for classification. Germ cell mutagenicity: Test Method: Chromosome aberration test in vitro Cell type: Chinese Hamster Ovary Cells Metabolic activation: with and without metabolic activation Result: negative

*Reproductive toxicity:* Species: Rat

Page 12 / 19



# Acetone

34480-2.5L

Version 1.6

## Revision Date 09.05.2023

Remarks: Not classified due to data which are conclusive although insufficient for classification.

Aspiration hazard: No data available

#### 11.2. Information on other hazards

Endocrine disrupting properties No data available

*Other information:* Solvent removes skin oil from the skin. Inhalation of acetone can cause headaches and a dazed state. Alcohol increases this effect.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

*Toxicity to fish:* LC50 Species: Pimephales promelas (fathead minnow) Value: 6.210 mg/l Exposure time: 96 h

LC50 Species: Leuciscus idus (Golden orfe) Value: 11.300 mg/l Exposure time: 48 h

LC50 Species: Gambusia affinis (Mosquito fish) Value: 13.000 mg/l Exposure time: 48 h

LC50 Species: Oncorhynchus mykiss (rainbow trout) Value: 5.540 mg/l Exposure time: 96 h Method: OECD Test Guideline 203

*Toxicity to aquatic plants:* EC50 Species: Algae

Page 13 / 19



# Acetone

# 34480-2.5L

Version 1.6

## Revision Date 09.05.2023

Value: 3.400 mg/l Exposure time: 48 h

*Toxicity to Microorganisms:* EC50 Species: Bacteria Value: 1.700 mg/l Exposure time: 16 h

Toxicity to aquatic invertebrates: LC50 Species: Daphnia pulex (Water flea) Value: 8.800 mg/l Exposure time: 48 h NOEC Species: Daphnia magna (Water flea) Value: 2.212 mg/l Exposure time: 48 h Method: OECD Guideline No. 211

#### 12.2. Persistence and degradability

*Biodegradability*: Biodegradation: 90 % Exposure time: 28 d Result: Readily biodegradable

#### 12.3. Bioaccumulative potential

Bioconcentration factor (BCF): 3 Bioaccumulation is unlikely.

# 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

No data available

#### 12.6. Endocrine disrupting properties

No data available

Page 14 / 19



		Riedel-de Haen'''
<b>Acetone</b> 34480-2.5L		
	Revision Date 09.05.2023	
12.7. Other adverse effects		
	Value: 1.760 mg/g	
Demand (BOD)	Value: 2.070 mg/g	
SECTION 13: Disposal consideration	IS	
13.1. Waste treatment methods	i	
<i>Product:</i> Dispose according to legal require	ements.	
<i>Packaging:</i> Legal requirements are to be cons	sidered in regard of reuse or dispo	sal of used packaging materials
<i>Further information:</i> Provisions relating to waste: EC Directive 2006/12/EC; 2008/98 Regulation No. 1013/2006	8/EEC	
For personal protection see section	on 8.	
SECTION 14: Transport information		
14.1 UN number ADR/RID:1090	IMDG:1090	IATA:1090
<b>14.2 UN proper shipping name</b> ADR/RID:ACETONE IMDG:ACETONE IATA:Acetone		
<b>14.3 Transport hazard class(es)</b> ADR/RID: 3	IMDG: 3	IATA: 3
<b>14.4 Packaging group</b> ADR/RID: II	IMDG: II	IATA: II
14.5 Environmental hazards ADR/RID:no	Marine pollutant: no	
	Page 15 / 19	



# Acetone

34480-2.5L

Version 1.6

Revision Date 09.05.2023

**14.6 Special precautions for user** No data available

**14.7 Maritime transport in bulk according to IMO instruments** No data available

#### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Basis	Value	Remarks
Directive 2012/18/EC Listed in Regulation : P5c: FLAMMABLE LIQUIDS Number in Regulation: 1.2.5.3	Quantity: 5.000.000 kg Quantity: 50.000.000 kg	
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq$ 0.1 % (w/w).
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors		Contains components listed in

#### **Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250

Page 16 / 19

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# Acetone

34480-2.5L

Version 1.6

# Revision Date 09.05.2023

Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
Germany	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
	Munich : 089/19240
Latvia	+37167042473

Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

#### Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) On the inventory, or in compliance with the inventory

Page 17 / 19



# Acetone

34480-2.5L

Version 1.6

Revision Date 09.05.2023

China. Inventory of Existing Chemical Substances (IECSC) On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

#### Text of H-statements referred to under heading 3

acetone; propan-2-one; propanone	:	H225	Highly flammable liquid and vapour.
		H319	Causes serious eye irritation.
		H336	May cause drowsiness or dizziness.
		EUH06	6 Repeated exposure may cause skin dryness or
		crackin	g.

#### Further information

All directives and regulations refer to amended versions. Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations: EC European Community CAS Chemical Abstracts Service DNEL Derived no effect level PNEC Predicted no effect level vPvB Very persistent and very biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

Page 18 / 19



# Acetone

34480-2.5L

Version 1.6

## Revision Date 09.05.2023

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. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

Page 19 / 19