

1 Identification of substance:

- **Product details:**
- **Trade name:** CA 359
- **Application of the substance / the preparation** Adhesives
- **Manufacturer/Supplier:**
Hilti Aktiengesellschaft
Feldkircherstr. 100
Postfach 333
FL-9494 Schaan
Liechtenstein
Tel: 00423 / 234 2111
Fax: 00423 / 234 2965
christoph.aubauer@hilti.com
- **Informing department:** see section 16
- **Emergency information:**
Hilti Aktiengesellschaft
Tel: 00423 / 234 2111
Fax: 00423 / 234 2965
Schweizerisches Toxikologisches Informationszentrum - 24 h Service
Tel.: 0041 / 1 251 51 51 (international)

2 Hazards identification

- **Hazard designation:**



F Highly flammable

- **Information pertaining to particular dangers for man and environment**
R 11 Highly flammable.
R 66 Repeated exposure may cause skin dryness or cracking.
R 67 Vapours may cause drowsiness and dizziness.
- **Classification system**
The classification is in line with current EC lists. It has been expanded, however, by information from technical literature, by information furnished by suppliers and by national regulations which have to be observed in chapter 15.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Preparation with a base of polychloroprene rubber, mineral fillers and hydrocarbon resin in organic solvent.

· **Dangerous components:**

CAS: 78-93-3	butanone	Xi, F; R 11-36-66-67	10 - 20%
EINECS: 201-159-0			
EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy	Xn; R 10-65-66	10 - 20%
EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light	Xn; R 10-65-66	10 - 20%

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation**
Take affected persons into the open air and position comfortably
Seek medical treatment.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.
- **Information for doctor** No particular measures are known - treat according to symptoms.

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Can be released in case of fire
Carbon monoxide (CO)
Carbon dioxide (CO₂)

(Contd. on page 2)

· **Protective equipment:** Wear self-contained breathing apparatus.

(Contd. of page 1)

6 Accidental release measures

- **Person-related safety precautions:**
 - Ensure adequate ventilation
 - Keep away from ignition sources
- **Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.
- **Measures for cleaning/collecting:** Collect mechanically.
- **Additional information:** See Section 13 for information on disposal.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Keep away from heat and direct sunlight.
 - Store in cool, dry place in tightly closed containers.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect from heat.
 - Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and containers:**
 - Store in cool location.
 - Store only in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 - Keep container tightly sealed.
 - Store container in a well ventilated position.

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

67-64-1 acetone (2,5-10%)

TLV (European Union)	1210 mg/m ³ , 500 ppm
----------------------	----------------------------------

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.
Do not eat, drink or smoke while working.

· **Breathing equipment:** Use breathing protection in case of insufficient ventilation.

· **Protection of hands:** Protective gloves.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**

Form:	Pasty
Colour:	Beige
Odour:	Like ketone

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: 64°C

· **Flash point:** -10°C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

· **Density** 1,2 g/cm³

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Materials to be avoided:** strong oxidizing agents
- **Dangerous products of decomposition:** none, if stored and handled correctly.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** generally the product is not skin irritating
- **Sensitization:** No sensitizing effect known.

12 Ecological information:

- **General notes:** Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation**
For disposal, local regulations issued by the authorities must be observed.
Dispose of liquid components at a suitable incineration plant.
After curing, the product can be disposed of with household waste.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances

- **Uncleaned packages:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID-GGVS/E Class:** 3 Flammable liquids.
- **Kemler Number:** 33
- **UN-Number:** 1133
- **Packaging group:** II
- **Label** 3
- **Designation of goods:** 1133 ADHESIVES, special provision 640D
- **Remarks:** Adhesive with a flash point of less than 21°C

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1133
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Correct technical name:** ADHESIVES

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1133
- **Label** 3
- **Packaging group:** II

· Correct technical name: ADHESIVES

15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**



F Highly flammable

· **Risk phrases:**

- 11 Highly flammable.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition - No smoking.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
III	2,5-10
NK	10-25

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

- 10 Flammable.
- 11 Highly flammable.
- 36 Irritating to eyes.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Department issuing data specification sheet:**

Hilti Corporation
Business Unit Chemicals
Quality/Safety/Environment

FL-9494 Schaan
Tel: 00423 234 2046
Fax: 00423 234 6046
e-mail: christoph.aubauer@hilti.com

· **Contact:** Dr. Christoph Aubauer