

# CP 506 / CS-ADH ACR 310

## Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR)

Issue date: 10/24/2025

Revision date: 10/24/2025

Supersedes: 06/20/2024

Version: 5.0

### SECTION 1: Identification

#### 1.1. Product identifier

Product form	Mixture
Product name	CP 506 / CS-ADH ACR 310
Product code	BU Fire Protection

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use	Adhesives, sealants
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#### 1.4. Supplier's details

##### Supplier

Hilti (Canada) Corp.  
2201 Bristol Circle  
Suite 700  
CA L6H 0J8 Oakville, Ontario  
Canada  
T +1905 8139200  
1-800-363-4458 toll free, F +1 905 813 9009  
[ca-sales@hilti.com](mailto:ca-sales@hilti.com)

##### Department issuing data specification sheet

Hilti AG  
Feldkircher Strasse  
FL 9494 Schaan  
Liechtenstein  
T +423 234 2111  
[product.compliance-fire.protection@hilti.com](mailto:product.compliance-fire.protection@hilti.com)

#### 1.5. Emergency telephone number

Emergency number	Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 101022 (USA domestic) 1 800 535 5053 or international (001) 352 323 3500
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### SECTION 2: Hazard identification

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

##### Classification (GHS CA)

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS CA labelling

No labelling applicable

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Calcium carbonate	-	CAS-No.: 1317-65-3	40 – 60	Not classified
glycerol	1,2,3-propane triol / 1,2,3-propanetriol / 1,2,3-trihydroxypropane / 90 technical glycerine / citifluor AF 2 / E422 / glycerene / glycerin / glycerin mist / glycerin USP / glycerin, anhydrous / glycerin, synthetic / glycerine / glyceritol / glycerol / glycol alcohol / glyrol / grocolene / IFP (=glycerol) / incorporation factor (=glycerol) / MOON (=glycerol) / osmoglyn / star (=glycerol) / superol (=1,2,3-propanetriol) / synthetic glycerin / trihydroxypropane	CAS-No.: 56-81-5	1 – 2.5	Not classified

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
First-aid measures after eye contact	Rinse eyes with water as a precaution.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
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Symptoms/effects after inhalation	None under normal conditions.
Symptoms/effects after skin contact	None under normal conditions.
Symptoms/effects after eye contact	None under normal conditions.
Symptoms/effects after ingestion	None under normal conditions.
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the hazardous product

Fire hazard	No fire hazard.
Explosion hazard	No direct explosion hazard.
Hazardous decomposition products in case of fire	Carbon dioxide. Carbon monoxide.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures	Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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### 6.2. Methods and materials for containment and cleaning up

For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

See Section 8, Exposure controls and personal protection, For further information refer to section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
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Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	Not expected to present a significant hazard under anticipated conditions of normal use.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	Keep in a cool, well-ventilated place away from heat.
Storage conditions	Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.
Storage temperature	5 – 25 °C
Packaging materials	Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Calcium carbonate (1317-65-3)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Limestone (Calcium carbonate)
OEL TWA	10 mg/m <sup>3</sup>
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Calcium carbonate (Limestone (Marble))
VEMP (OEL TWAEV)	10 mg/m <sup>3</sup> Td
Notations and remarks	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Calcium carbonate (incl. Limestone, Marble)
OEL TWA	10 mg/m <sup>3</sup> Total dust 3 mg/m <sup>3</sup> Respirable fraction
OEL STEL	20 mg/m <sup>3</sup>
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Limestone (calcium carbonate)
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	20 mg/m <sup>3</sup>
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Limestone (calcium carbonate)



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OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	20 mg/m <sup>3</sup>
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Limestone (calcium carbonate)
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	20 mg/m <sup>3</sup>
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
glycerol (56-81-5)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Glycerin mist
OEL TWA	10 mg/m <sup>3</sup>
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Glycerin (mist)
VEMP (OEL TWAEV)	10 mg/m <sup>3</sup>
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Glycerin - mist
OEL TWA	10 mg/m <sup>3</sup> Total 3 mg/m <sup>3</sup> Respirable
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Glycerin mist
Notations and remarks	URT irr
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Glycerin mist
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	20 mg/m <sup>3</sup>
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Glycerin mist
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	20 mg/m <sup>3</sup>



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Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Glycerin mist
OEL TWAEV	10 mg/m <sup>3</sup>
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Glycerin mist
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	20 mg/m <sup>3</sup>
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Additional information	The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

### 8.2. Appropriate engineering controls

Appropriate engineering controls	Ensure good ventilation of the work station.
Environmental exposure controls	Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing.

<b>Hand protection:</b>				
Wear protective gloves. Suitable for short-term work or as a splash guard: Nitrile rubber gloves (> 0.1 mm). In case of permanent product contact:				
Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	>0,4	

<b>Eye protection:</b>
Chemical goggles or safety glasses. Use eye protection according to EN 166.

<b>Skin and body protection:</b>
Wear suitable protective clothing

<b>Respiratory protection:</b>
No respiratory protection needed under normal use conditions

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### Personal protective equipment symbol(s):



### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	Liquid
Appearance	Pasty.
Colour	Colourless
Odour	characteristic
Odour threshold	Not determined
pH	Not determined
Relative evaporation rate (butylacetate=1)	No data available
Relative evaporation rate (ether=1)	No data available
Molecular mass	Not determined
Melting point	Not applicable
Freezing point	No data available
Boiling point	> 100 °C
Flash point	> 100 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	23 hPa
Relative vapour density at 20°C	No data available
Relative density	No data available
Density	1.5 – 1.6 g/cm <sup>3</sup>
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Explosive limits	No data available

### 9.2. Other information

VOC content	43.21 g/l ASTM D 2369 – 20, SCAQMD 1168 / All Other Architectural Sealants (limit 50g/L)
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## SECTION 10: Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Not established.
Possibility of hazardous reactions	Not established.
Conditions to avoid	Direct sunlight. Extremely high or low temperatures.
Incompatible materials	Strong acids. Strong bases.
Hazardous decomposition products	fume. Carbon monoxide. Carbon dioxide.
Hardening time:	No additional information available

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Calcium carbonate (1317-65-3)	
LD50 oral rat	> 5000 mg/kg
glycerol (56-81-5)	
LD50 oral rat	27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 10 day(s))
LD50 dermal	56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5.85 mg/l (Equivalent or similar to OECD 412, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

Skin corrosion/irritation	Not classified pH: Not determined
Serious eye damage/irritation	Not classified pH: Not determined
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.
Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	None under normal conditions.
Symptoms/effects after skin contact	None under normal conditions.
Symptoms/effects after eye contact	None under normal conditions.
Symptoms/effects after ingestion	None under normal conditions.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified

Calcium carbonate (1317-65-3)	
LC50 - Fish [1]	> 10000 mg/l (Oncorhynchus mykiss (rainbow trout))
EC50 - Crustacea [1]	> 1000 mg/l (Daphnia magna (Water flea))
EC50 72h - Algae [1]	289 mg/l Desmodesmus subspicatus (green algae)



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Calcium carbonate (1317-65-3)	
NOEC chronic algae	75 mg/l
glycerol (56-81-5)	
LC50 - Fish [1]	54000 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	> 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)

### 12.2. Persistence and degradability

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Persistence and degradability	Not established.
glycerol (56-81-5)	
Not rapidly degradable	
Persistence and degradability	Readily biodegradable in water.

### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
glycerol (56-81-5)	
Bioaccumulative potential	Not bioaccumulative.
Partition coefficient n-octanol/water (Log Pow)	-1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C)

### 12.4. Mobility in soil

glycerol (56-81-5)	
Surface tension	63 mN/m (20 °C, 1000 g/l)
Ecology - soil	Highly mobile in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

### 12.5. Other adverse effects

Ozone	Not classified
Other information	Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation	Disposal must be done according to official regulations.
Waste treatment methods	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	Recycle the material as far as possible. Dispose in a safe manner in accordance with local/national regulations. Disposal must be done according to official regulations.
Additional information	Do not re-use empty containers.
Ecological waste information	Avoid release to the environment.



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### SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

#### 14.6. Special precautions for user

##### TDG

No data available

##### DOT

No data available

##### IMDG

No data available

##### IATA

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. National regulations

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Canada DSL & NDSL Flags	All components of this product are listed, or excluded from listing, on the Canadian Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
Calcium carbonate (1317-65-3)	
Listed on the Canadian NDSL (Non-Domestic Substances List)	



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glycerol (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

### SECTION 16: Other information

SDS Major/Minor None  
Issue date 10-24-2025  
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Supersedes 06-20-2024

#### Indication of changes

Section	Changed item	Change	Comments
			SOR/2015-17, Hazardous Products Regulations (HPR)

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information None.

#### Abbreviations and acronyms:

ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer

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Abbreviations and acronyms:	
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.