



## Factor II, Incorporated

The Art, Science and Technology of  
Silicones and Prosthetics...

## Safety Data Sheet

Product Code: A-840

Revision Date: 2/13/2018

### SECTION 1: IDENTIFICATION

#### PRODUCT IDENTIFIER

Product Name CCH Solvent

Product Code A-840

Intended Use(s) : For professional use only

#### CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

Factor II, Incorporated  
5642 White Mountain Ave  
PO Box 1339  
Lakeside AZ 85929  
928-537-8387  
[www.factor2.com](http://www.factor2.com)  
[sales@factor2.com](mailto:sales@factor2.com)

#### EMERGENCY TELEPHONE NUMBERS

928- 368-7502

### SECTION 2: HAZARD IDENTIFICATION

#### **GHS Classification**

Flammable liquids:	Category 2
Skin irritation:	Category 2
Specific target organ toxicity -single exposure:	Category 3 (Central nervous system)
Aspiration hazard:	Category 1

#### **GHS label elements**

Hazard pictograms:



Signal Word:

Danger



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### Hazard statements:

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin and eye irritation.  
H336 May cause drowsiness or dizziness.

### Precautionary statements:

#### **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces.  
No smoking  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting.  
Equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

#### **Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON  
CENTER/doctor  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately  
all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air  
and keep comfortable for breathing. Call a POISON  
CENTER/doctor if you feel unwell.  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/  
attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or  
alcohol-resistant foam to extinguish.

#### **Storage:**

P403 + P233 Store in a well-ventilated place. Keep container  
tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

#### **Disposal:**

P501 Dispose of contents/ container to an approved waste  
disposal plant.

### Other Hazards

None Known.



**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

**Hazardous components**

CAS-No	Chemical name	Weight percent
110-82-7	Cyclohexane	90 - 100

Any Concentration shown as a range is due to batch variation.

**Molecular formula** : C6H12

**SECTION 4: FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.



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Most important symptoms and effects, both acute and delayed : Irritation  
Headache  
Gastrointestinal disturbance  
Nausea  
Vomiting  
Diarrhea

Notes to physician : Treat symptomatically

### SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing Media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon oxides

Specific extinguishing methods : Use a water spray to cool fully closed containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored Separately in closed containments.

Special protective equipment For firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment



## SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive Concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains Inform respective authorities.
- Methods and materials for Containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## SECTION 7: HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only Explosion-proof equipment. Keep away from open flames, hot Surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure – obtain special instructions before use.  
For personal protection see section 8.  
Smoking, eating, and drinking should be prohibited in the application area  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.



Conditions for safe storage : No Smoking.  
 Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.

<b>SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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**Components with workplace control parameters**

CAS-No.	Components	Value type (Form of exposure)	Control parameters / permissible concentration	Basis
110-82-7	Cyclohexane	TWA	100 ppm	ACGIH
		TWA	300 ppm 1,050 mg/m3	NIOSH REL
		TWA	300 ppm 1,050 mg/m3	OSHA Z-1
		TWA	300 ppm 1,050 mg/m3	OSHA P0

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.  
 In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
 Tightly fitting safety goggles

Skin and body protection : Impervious clothing  
 Choose body protection according to the amount and concentration of the dangerous substance at the workplace.



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Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Colourless
Odour	: irritating, characteristic, sweet
Odour Threshold	: No data available
pH	: Not applicable
Freezing Point (melting point/range)	: 6.4 - 7.0°C (43.5 – 44.6°F)
Boiling Point (Boiling Point/boiling range)	: 80.7 – 81 °C (177.3 – 178 °F)
Flash point	: -18.3 - - 18 °C (-0.9 - - 0.40 °F) Method: closed cup
Evaporation rate	: 1.95 – 2 Ethyl Ether
Flammability (solid, gas)	: No data available
Upper explosion limit	: 8.0 – 8.3 %(V)
Lower explosion limit	: 1.2 – 1.3 %(v)
Vapour pressure	: 78 mmHg @ 37.8 °C (100.0 °F)
Relative vapour density	: 2.9 @ 20 – 25 °C (68-77 °F) (Air = 1.0)
Relative density	: 0.78 @ 15.6 °C (60.1 °F) Reference substance: (water = 1)
Density	: 0.78 – 0.8 g/cm <sup>3</sup> @ 15.6 – 20 °C (6.01 – 68 °F)



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Solubility(ies) Water solubility	: 0.05 g/l insoluble @ 20 °C (68 °F)
Solubility in other solvents	: soluble Solvent: Hydrocarbons
Partition coefficient: noctanol/water	: log Pow: 3.44
Auto-ignition temperature	: 260 °C
Thermal decomposition	: No data available
Viscosity Viscosity, kinematic	: 0.953 – 098 mm <sup>2</sup> /s @ 37.8 °C (100.0 °F)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

### SECTION 10: STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous Reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Keep away from heat, flame, sparks, and other ignition Sources.
Incompatible materials	: Oxygen Strong oxidizing agents chlorates nitrates Peroxides Acids Bases
Hazardous decomposition Products	: carbon dioxide and carbon monoxide Hydrocarbons Aldehydes



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## SECTION 11: TOXICOLOGICAL INFORMATION

### Skin corrosion/irritation

#### Components:

**110-82-7:**

Species: Rabbit

Result: Irritating skin.

### Carcinogenicity

#### IARC

No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### STOT – single exposure

#### Components:

**110-82-7**

Target organs: Central nervous system

Assessment: The substance or mixture is classified as specific target open toxicant, Single exposure, category 3 with narcotic effects.

### Aspiration toxicity

#### Components:

**110-82-7:**

May be fatal if swallowed and enters airways.

### Further information



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### **Products:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Concentrations substantially above the TLV value may cause narcotic effects. Solvents May degrease the skin.

## SECTION 12: ECOLOGICAL INFORMATION

### **Exotoxicity**

#### **Components:**

##### **110-82-7:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.9 mg/l  
Exposure time: 48 h  
Test Type: static test

M-Factor (Acute aquatic toxicity) : 1

Acute aquatic toxicity – assessment : Very toxic to the aquatic life.

Chronic aquatic toxicity – assessment : This product has no known ecotoxicological effects.

### **Persistence and degradability**

#### **Product:**

Biodegradability : Biodegradation 77 %  
Exposure time: 28 d  
Remarks: Readily biodegradable, according to appropriate OECD test.

### **Bioaccumulative potential**

#### **Product:**

**Bioaccumulation** : Bioconcentration factor (BCF): 167  
Remarks: This material is not expected to bioaccumulate.

### **Mobility in soil**

No data available

### **Other adverse effects**



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### **Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone – CAA Section 602  
Class I Substances

Remarks: This product neither contains, nor was  
Manufactured with a Class I of Class II ODS as defined  
By the U.S. Clean Air Act Section 602 (40 CFR 82,  
Subpt. A, App.A + B).

Additional ecological Information : An environmental hazard cannot be excluded in the  
event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

## SECTION 13: DISPOSAL CONSIDERATIONS

### **Disposal methods**

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: TRANSPORT INFORMATION

### **DOT (Department of Transportation):**

UN1145, CYCLOHEXANE, 3 II, Pollutant (CYCLOHEXANE)

### **IATA (International Air Transport Association):**

UN1145, CYCLOHEXANE, 3, II

### **IMDG (International Maritime Dangerous Goods):**

UN1145, CYCLOHEXANE, 3 II, Marine Pollutant (CYCLOHEXANE, Flash Point: -18.3 - -18 °C  
(-0.9 - -0.40 °

## SECTION 15: REGULATORY INFORMATION

**WHMIS Classification** : B2 Flammable liquid  
D2B: Toxic Material Causing Other Toxic Effects

**EPCRA – Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**



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Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Cyclohexane	110-82-7	1000	1000

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
 Skin corrosion or irritation  
 Specific target organ toxicity (single or repeated exposure)  
 Aspiration hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SAR Title III, Section 313:

110-82-7      Cyclohexane

### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

71-43-2      Benzene

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for accidental release prevention (40 CFR 68. 130, Subpart F).

The following chemical(s) are listed under the Clean Air Act Section III SOCOMI Intermediate of Final VOC'S (40 Cfr 60.489):

110-82-7      Cyclohexane

71-43-2      Benzene

### Clean Water Act

The following hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A:

110-82-7      Cyclohexane

71-43-2      Benzene

The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, 117.3:

110-82-7      Cyclohexane

71-43-2      Benzene

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### Massachusetts Right to Know

110-87-7      Cyclohexane

71-43-2      Benzene

### Pennsylvania Right to Know

110-82-7      Cyclohexane

71-43-2      Benzene



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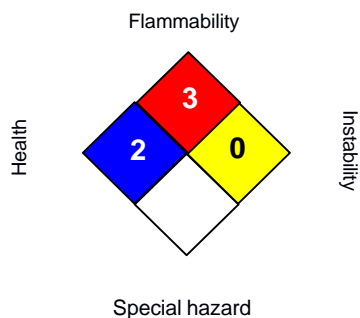
## California Prop 65

**WARNING:** This product can expose you to chemicals including Benzene, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### The components of this product are reported in the following inventories:

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

## SECTION 16: OTHER INFORMATION



<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

The information accumulated is based on data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

**Revision Date** : 09/01/2019



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Revision Date: 2/13/2018

Legacy SDS : R0012665

### Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Government Industrial Hygienist	LD50	Lethal dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicity Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemicals In China	TWA	Time Weighted Average
ENCS	Japan, Inventory of existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, And Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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of any U.S. patents or other country's patents covering the product itself or the use in combination with other products or in the operation of any process.

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