



Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016

Revision: 03/23/2016

1 Identification

- **Product identifier**
- **Trade name:** Plumbing Clear Low VOC Cement for PVC Plastic Pipe
- **Product code:**
 - PV16GR: ABS and PVC Cement Gray Pint (Low VOC)
 - PV1CL: VOC PVC Cement (1 Gallon)
 - PV32CL: ABS and PVC Cement Clear Quart (Low VOC)
 - PV32GR: ABS and PVC Cement Gray Quart (Low VOC)
 - PV16CL: ABS and PVC Cement Clear Pint (Low VOC)
 - PR16: ABS and PVC Primer Clear Pint (Low VOC)
- **Recommended use and restriction on use**
- **Recommended use:** Solvent Cement for PVC Pipe
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
 - L.H. Dottie Company
 - 6131 Garfield Ave.
 - Commerce, CA 90040
 - (323) 725-1000
- **Emergency telephone number:**
 - ChemTel Inc.
 - +1 (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**

Flam. Liq. 2	H225	Highly flammable liquid and vapor.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Dam. 1	H318	Causes serious eye damage.
Carc. 2	H351	Suspected of causing cancer.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.

- **Label elements**
- **GHS label elements**
 - The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS02 GHS05 GHS07 GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**
 - cyclohexanone
 - tetrahydrofuran
 - butanone

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acetone

Hazard statements:

- H225 Highly flammable liquid and vapor.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary statements:

- P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P261 Avoid breathing mist, vapors, or spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves and eye protection.
P240 Ground/bond container and receiving equipment.
P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P271 Use only outdoors or in a well-ventilated area.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

Chemical characterization: Mixtures**Components:**

78-93-3	butanone	20-40%
	Flam. Liq. 2, H225	
	Eye Irrit. 2A, H319; STOT SE 3, H336	

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108-94-1	cyclohexanone Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	15-35%
109-99-9	tetrahydrofuran Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4, H302; Eye Irrit. 2A, H319; STOT SE 3, H335	10-30%
67-64-1	acetone Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	5-15%

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

4 First-aid measures

Description of first aid measures**After inhalation:**

Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.
In case of irregular breathing or respiratory arrest provide artificial respiration.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact:

Protect unharmed eye.
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Headache
Breathing difficulty
Dizziness
Coughing
Strong irritant with the danger of severe eye injury.
May cause respiratory irritation.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
Unconsciousness

Danger:

Harmful if inhaled.
Suspected of causing cancer.

Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

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If necessary oxygen respiration treatment.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
 - Alcohol resistant foam
 - Gaseous extinguishing agents
 - Carbon dioxide
 - Fire-extinguishing powder
 - Water fog / haze
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**
 - Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Do not inhale explosion gases or combustion gases.
 - Wear fully protective suit.
- **Additional information:**
 - Eliminate all ignition sources if safe to do so.
 - Cool endangered containers with water fog.
 - Use large quantities of foam as it is partially destroyed by the product.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
 - Use respiratory protective device against the effects of fumes/dust/aerosol.
 - Wear protective equipment. Keep unprotected persons away.
 - Ensure adequate ventilation.
 - Keep away from ignition sources.
 - Protect from heat.
- **Environmental precautions:** Avoid release to the environment.
- **Methods and material for containment and cleaning up:**
 - Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
 - Send for recovery or disposal in suitable receptacles.
- **Reference to other sections:**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
 - Prevent formation of aerosols.

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Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about protection against explosions and fires:

Highly flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

Conditions for safe storage, including any incompatibilities**Storage****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizers, strong acids, strong bases.

Further information about storage conditions: Keep containers tightly sealed.**Specific end use(s):** No relevant information available.

8 Exposure controls/personal protection

Control parameters**Components with limit values that require monitoring at the workplace:****108-94-1 cyclohexanone**PEL (USA) Long-term value: 200 mg/m³, 50 ppmREL (USA) Long-term value: 100 mg/m³, 25 ppm
SkinTLV (USA) Long-term value: 50 mg/m³, 20 ppm
SkinEL (Canada) Short-term value: 50 ppm
Long-term value: 20 ppm
SkinEV (Canada) Short-term value: 50 ppm
Long-term value: 20 ppm
SkinLMPE (Mexico) Short-term value: 50 ppm
Long-term value: 20 ppm
A3, PIEL**78-93-3 butanone**PEL (USA) Long-term value: 590 mg/m³, 200 ppmREL (USA) Short-term value: 885 mg/m³, 300 ppm
Long-term value: 590 mg/m³, 200 ppm

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TLV (USA)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm BEI
EL (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm
EV (Canada)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
LMPE (Mexico)	Short-term value: 300 ppm Long-term value: 200 ppm IBE

109-99-9 tetrahydrofuran

PEL (USA)	Long-term value: 590 mg/m ³ , 200 ppm
REL (USA)	Short-term value: 735 mg/m ³ , 250 ppm Long-term value: 590 mg/m ³ , 200 ppm
TLV (USA)	Short-term value: 295 mg/m ³ , 100 ppm Long-term value: 147 mg/m ³ , 50 ppm Skin
EL (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm Skin
EV (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm Skin
LMPE (Mexico)	Short-term value: 100 ppm Long-term value: 50 ppm A3, PIEL

67-64-1 acetone

PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm
TLV (USA)	Short-term value: 1187 mg/m ³ , 500 ppm Long-term value: 594 mg/m ³ , 250 ppm BEI
EL (Canada)	Short-term value: 500 ppm Long-term value: 250 ppm
EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm
LMPE (Mexico)	Short-term value: 750 ppm Long-term value: 500 ppm A4, IBE

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Ingredients with biological limit values:**108-94-1 cyclohexanone**

BEI (USA)	80 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 1,2-Cyclohexanediol with hydrolysis (nonspecific, semi-quantitative)
	8 mg/L Medium: urine Time: end of shift Parameter: Cyclohexanol with hydrolysis (nonspecific, semi-quantitative)

78-93-3 butanone

BEI (USA)	2 mg/L Medium: urine Time: end of shift Parameter: MEK
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109-99-9 tetrahydrofuran

BEI (USA)	2 mg/L Medium: urine Time: end of shift Parameter: Tetrahydrofuran
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67-64-1 acetone

BEI (USA)	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Engineering controls: No relevant information available.**Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

For spills, respiratory protection may be advisable.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves Butyl rubber, BR**Eye protection:** Follow relevant national guidelines concerning the use of protective eyewear.**Body protection:** Protective work clothing

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· Limitation and supervision of exposure into the environment

No relevant information available.

9 Physical and chemical properties

· Information on basic physical and chemical properties**· Appearance:****Form:**

Liquid

Color:

Clear

· Odor:

Like ketone

· Odor threshold:

Not determined.

· pH-value:

Not determined.

· Melting point/Melting range:

Not determined.

· Boiling point/Boiling range:

56-156 °C (133-313 °F)

· Flash point:

-20 °C (-4 °F) (TCC for acetone)

· Flammability (solid, gaseous):

Not applicable.

· Auto-ignition temperature:

321 °C (610 °F) (THF)

· Decomposition temperature:

Not determined.

· Auto igniting:

Product is not self-igniting.

· Danger of explosion:

May form explosive peroxides.

· Explosion limits**Lower:**

1.1 Vol %

Upper:

12.8 Vol %

· Oxidizing properties:

Not determined.

· Vapor pressure at 20 °C (68 °F):

190 mm Hg (acetone)

· Density at 23 °C (73 °F):0.920 g/cm³ (7.677 lbs/gal)**· Relative density:**

Not determined.

· Vapor density:

>2 (Air=1)

· Evaporation rate:

>1 (BuAc = 1)

· Solubility in / Miscibility with**Water:**

Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.**· Viscosity****Dynamic:**

Not determined.

Kinematic:

Not determined.

VOC content:

≤510 g/l

· Other information

No relevant information available.

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10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.
- **Possibility of hazardous reactions:**
 - Flammable.
 - Possible formation of peroxide.
 - Reacts with strong oxidizing agents.
 - Reacts with alkali, amines and strong acids.
 - Used empty containers may contain product gases which form explosive mixtures with air.
 - Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid:** Excessive heat.
- **Incompatible materials:** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

108-94-1 cyclohexanone

Oral	LD50	1535 mg/kg (rat)
Inhalative	LC50/4h	6.2 mg/l (rat)

109-99-9 tetrahydrofuran

Oral	LD50	1650 mg/kg (rat)
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- **Primary irritant effect:**

- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Based on available data, the classification criteria are not met.

- **IARC (International Agency for Research on Cancer):**

108-94-1	cyclohexanone	3
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- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**

Ingestion.
Eye contact.
Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):**

Vapors have narcotic effect.
Causes serious eye damage.
Harmful if inhaled.

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- **Repeated dose toxicity:** Repeated exposure may cause skin dryness or cracking.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Carc. 2
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Suspected of causing cancer.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** May cause drowsiness or dizziness.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** Biodegradable.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1133

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· UN proper shipping name

Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

· DOT, IATA
· ADR
· IMDGAdhesives
1133 ADHESIVES
ADHESIVES**· Transport hazard class(es)****· DOT****· Class**
· Label3 Flammable liquids
3**· ADR****· Class**
· Label3 (F1) Flammable liquids
3**· IMDG, IATA****· Class**
· Label3 Flammable liquids
3**· Packing group****· DOT, ADR, IMDG, IATA**

II

· Environmental hazards

Not applicable.

· Special precautions for user

Warning: Flammable liquids

· Danger code (Kemler):

33

· EMS Number:

F-E,S-D

**· Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code**

Not applicable.

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· Transport/Additional information:**· IATA****· Remarks:**

Limited quantity by air: 1L

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture**· United States (USA)****· SARA****· Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

78-93-3 butanone

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)**· Chemicals known to cause cancer:**

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic categories**· EPA (Environmental Protection Agency):**

78-93-3 butanone

I

109-99-9 tetrahydrofuran

SC

67-64-1 acetone

I

· IARC (International Agency for Research on Cancer):

108-94-1 cyclohexanone

3

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· Canadian substance listings**· Canadian Domestic Substances List (DSL):**

All ingredients are listed.

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Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 03/23/2016 / -**Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com