

SAFETY DATA SHEET ClarityCoat Clear Base

1) Identification

Product identifier

Tradename: **CLARCO-CB ClarityCoat Clear Base**

Article number: CLARCO-CB

Application of the substance / the mixture Coating

Specialist base coating designed to adhere to any non-porous surface enabling a superior impact resistant due to elastomeric properties.

Details of the supplier of the safety data sheet Manufacturer/Supplier:

ClarityCoat LLC

Po Box 435

Sioux Falls, SD 57101

Phone: 605-610-8861

Information department: 605-610-8861

Emergency telephone number: CHEMTREC 1-800-424-9300

2) Hazards Identification

Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02



GHS07



GHS08

Signal word Danger

Hazard-determining components of labeling:

xylene

Solvent naphtha (petroleum), light aliph.

bis(1,2,2,6,6-Pentamethyl-4-piperidinyI) sebacate

Hazard statements

- H225 Highly flammable liquid and vapor.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H340 May cause genetic defects.
- H350 May cause cancer.

Precautionary statements

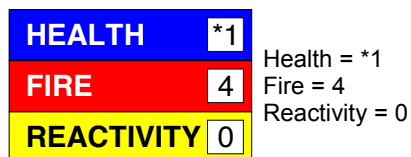
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 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/vapors/spray
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P34 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308+P31 IF exposed or concerned: Get medical advice/attention.
- P312 Call a poison center/doctor if you feel unwell.
- P321 Specific treatment (see on this label).
- P362+P36 Take off contaminated clothing and wash it before reuse.
- P333+P31 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P370+P37 In case of fire: Use for extinction: CO2, powder or water spray.
- P403+P23 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

- PBT:** Not applicable.
- vPvB:** Not applicable.

3) Composition/Information on Ingredients

Chemical characterization: Mixtures

Description:

Mixture: consisting of the following components.

Weight percentages

Dangerous components:

| | |
|--|----------|
| 1330-20-7 xylene | 60-70% |
| 64742-89-8 Solvent naphtha (petroleum), light aliph. | 13-30% |
| 67-64-1 acetone | 1.5-5% |
| 25973-55-1 2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol | ≥0.1-≤1% |
| 41556-26-7 bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate | ≥0.1-<1% |

4) First-Aid Measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5) Fire-Fighting Measures

Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: Mouth respiratory protective device.

6) Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.

Protective Action Criteria for Chemicals

PAC-1:

1330-20-7 xylene: 130 ppm
67-64-1 acetone: 200 ppm
112945-52-5 SILICA: 18 mg/m³
122-99-6 2-Phenoxyethanol: 1.5 ppm
108-88-3 toluene: 67 ppm
100-41-4 ethylbenzene: 33 ppm
108-65-6 2-methoxy-1-methylethyl acetate: 50 ppm
91-20-3 naphthalene: 15 ppm
67-63-0 propan-2-ol: 400 ppm
70657-70-4 2-methoxypropyl acetate: 50 ppm

PAC-2:

1330-20-7 xylene: 920* ppm
67-64-1 acetone: 3200* ppm
112945-52-5 SILICA: 100 mg/m³
122-99-6 2-Phenoxyethanol: 16 ppm
108-88-3 toluene: 560 ppm
100-41-4 ethylbenzene: 1100* ppm
108-65-6 2-methoxy-1-methylethyl acetate: 1,000 ppm
91-20-3 naphthalene: 83 ppm
67-63-0 propan-2-ol: 2000* ppm
70657-70-4 2-methoxypropyl acetate: 1,000 ppm

PAC-3:

1330-20-7 xylene: 2500* ppm
67-64-1 acetone: 5700* ppm
112945-52-5 SILICA: 630 mg/m³
122-99-6 2-Phenoxyethanol: 97 ppm
108-88-3 toluene: 3700* ppm
100-41-4 ethylbenzene: 1800* ppm
108-65-6 2-methoxy-1-methylethyl acetate: 5000* ppm
91-20-3 naphthalene: 500 ppm
67-63-0 propan-2-ol: 12000** ppm
70657-70-4 2-methoxypropyl acetate: 5,000 ppm

7) Handling and Storage

Handling:

Precautions for safe handling

No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.

8) Exposure Controls / Personal Protection

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

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

1330-20-7 xylene

PELLong-term value: 435 mg/m³, 100 ppm

RELSshort-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

TLVShort-term value: 651 mg/m³, 150 ppm

Long-term value: 434 mg/m³, 100 ppm

BEI

67-64-1 acetone

PELLong-term value: 2400 mg/m³, 1000 ppm

RELLong-term value: 590 mg/m³, 250 ppm

TLVShort-term value: 1187 mg/m³, 500 ppm

Long-term value: 594 mg/m³, 250 ppm

BEI

Ingredients with biological limit values:**1330-20-7xylene**

BEI 1.5 g/g creatinine

Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

67-64-1acetone

BEI 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

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

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:



Tightly sealed goggles

9) Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance:

| | |
|-----------------|-----------------|
| Form: | Liquid |
| Color: | Cloudy |
| Odor: | Aromatic |
| Odor threshold: | Not determined. |
| pH-value: | Not determined. |

Change in condition

| | |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 36 °C |

Flash point: 10 °C

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 500 °C

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: In use, may form flammable/explosive vapour-air mixture.

Explosion limits:

| | |
|--------|-----------|
| Lower: | 1.1 Vol % |
| Upper: | 7 Vol % |

Vapor pressure at 20 °C: 29 hPa

Density at 20 °C: >0.87159-<0.8718 g/cm³

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

| | |
|---|--|
| Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| Partition coefficient (n-octanol/water): | Not determined. |
| Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| Solvent content: | |
| Organic solvents: | 83.7 % |
| VOC content: | ≥79.41-<79.42 % >726.2-<726.5 g/l / 6.06 lb/gal |
| Solids content: | 16.2 % |
| Other information | No further relevant information available. |

I 0) Stability and Reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

I 1) Toxicological Information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: No irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

The product can cause inheritable damage.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

1330-20-7 xylene: 3

108-88-3 toluene: 3

100-41-4 ethylbenzene: 2B

91-20-3 naphthalene: 2B

67-63-0 propan-2-ol: 3

NTP (National Toxicology Program)

91-20-3 naphthalene: R

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

I 2) Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

I 3) Disposal Considerations

Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

I 4) Transport Information

UN-Number

DOT, ADR, IMDG, IATA

UN1263

UN proper shipping name

DOT

Paint

ADR

1263 Paint, special provision 640D

IMDG, IATA

PAINT

Transport hazard class(es)

DOT



Class

3 Flammable liquids

Label

3

ADR, IMDG, IATA



Class

3 Flammable liquids

| | |
|--|---|
| Label | 3 |
| Packing group | |
| DOT, ADR, IMDG, IATA | II |
| Environmental hazards: | |
| Marine pollutant: | No |
| Special precautions for user | Warning: Flammable liquids |
| EMS Number: | F-E, S-E |
| Stowage Category | B |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| Transport/Additional information: | |
| DOT | |
| Quantity limitations | On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L |
| ADR | |
| Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| IMDG | |
| Limited quantities (LQ) | 5L |
| Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| UN "Model Regulation": | UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II |

15) Regulatory Information

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

Sara

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

1330-20-7 xylene
122-99-6 2-Phenoxyethanol
108-88-3 toluene
100-41-4 ethylbenzene
104-68-7 Diethylene glycol monophenyl ether
91-20-3 naphthalene
67-63-0 propan-2-ol

TSCA (Toxic Substances Control Act):

1330-20-7 xylene
64742-89-8 Solvent naphtha (petroleum), light aliph.
66070-58-4 Styrene-Ethylene/Butylene-Styrene block Copolymer
67-64-1 acetone
68611-44-9 Modified Silica
9003-29-6 POLYBUTENE (ISOBUTYLENE/BUTENE COPOLYMER)
69430-35-9 Alicyclic hydrocarbon resin
25973-55-1 2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol
41556-26-7 bis(1,2,2,6,6-Pentamethyl-4-piperidiny) sebacate
6683-19-8 Tertrakis(methylene(3,5-di(tert)-butyl-4-hydroxyhydrocinnamate)) methane
122-99-6 2-Phenoxyethanol
108-88-3 toluene

100-41-4 ethylbenzene
82919-37-7 Methyl (1,2,2,6,6,- pentamethyl-4-piperidiny) sebacate
108-65-6 2-methoxy-1-methylethyl acetate
64742-94-5 Solvent naphtha (petroleum), heavy arom.
25322-17-2 naphthalenesulfonic acid, dinonyl
106-79-6 Dimethyl sebacate(Impurity)
104-68-7 Diethylene glycol monophenyl ether
61789-77-3 Quaternary ammonium compounds, dicocoalkyldimethyl, chlorides
91-20-3 naphthalene
67-63-0 propan-2-ol
2403-89-6 4-Piperidinol, 1,2,2,6,6 pentamethyl- (Impurity)
84633-54-5 Pentaerythritol tris tri ester with 3-(3,5-di-(tert)-butyl-4-hydroxyphenyl)propionic acid

Proposition 65

Chemicals known to cause cancer:

1330-20-7 xylene
100-41-4 ethylbenzene
91-20-3 naphthalene

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

108-88-3 toluene

Carcinogeny categories

EPA (Environmental Protection Agency)

1330-20-7 xylene: I
67-64-1 acetone: I
108-88-3 toluene: II
100-41-4 ethylbenzene: D
91-20-3 naphthalene: C, CBD

TLV (Threshold Limit Value established by ACGIH)

1330-20-7 xylene: A4
67-64-1 acetone: A4
108-88-3 toluene: A4
100-41-4 ethylbenzene: A3
91-20-3 naphthalene: A4
67-63-0 propan-2-ol: A4

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

None of the ingredients is listed.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02

GHS07

GHS08

Signal word Danger

Hazard-determining components of labeling:

xylene

Solvent naphtha (petroleum), light aliph.
bis(1,2,2,6,6-Pentamethyl-4-piperidiny) sebacate

Hazard statements

H225 Highly flammable liquid and vapor.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

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.

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/vapors/spray

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a poison center/doctor if you feel unwell.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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.

Department issuing SDS: Environment protection department.

Contact: (901) 363-4955

Date of preparation / last revision 01/01/2019

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1B: Carcinogenicity – Category 1B

*** Data compared to the previous version altered.**