SAFETY DATA SHEET



1. Identification

Product identifier CHO-BOND 1035

Other means of identification

SDS number PHC-082 Product code 1035

Recommended useMoisture cure adhesive / sealant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Parker Hannifin Corp.
Address 77 Dragon Court

Woburn, MA 01888

United States

Telephone 781-935-4580

Website www.chomerics.com
E-mail www.chomerics.com
chomailbox@parker.com

Emergency phone number INFOTRAC - Domestic 800-535-5053

INFOTRAC - International 352-323-3500

Supplier Refer to Manufacturer

2. Hazard(s) identification

Physical hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Health hazardsSkin corrosion/irritationCategory 2

Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2
Reproductive toxicity Category 2

Environmental hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

OSHA defined hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of

damaging fertility or the unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye

protection/face protection.

Response If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse.

Storage Store locked up.

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

Hazard(s) not otherwise classified (HNOC)

No OSHA defined hazard classes.

Other hazards which do not result in classification: May cause respiratory irritation. May cause central nervous system effects. May cause discomfort if swallowed. Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.

Prolonged or repeated overexposure may cause liver and kidney effects.

When heated above 150°C in air, may release formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant. Formaldehyde may cause sensitisation by skin contact.

CAS number 50-00-0

Not Known

Formaldehyde has shown limited evidence of a carcinogenic effect.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

| Common name and synonyms | CAS number | % |
|---|---|--|
| Not Available | 65997-17-3 | 40 - 70 |
| Silver-metal Argentum | 7440-22-4 | 5 - 10 |
| Siloxanes and Silicones, di-Me, hydroxy-terminated DIMETHYL(POLYSILOXANE) | 70131-67-8 | 3 - 7 |
| ETHYLBENZOL PHENYLETHANE | 100-41-4 | 1 - 5 |
| M-BENZENE, DIMETHYL M-XYLOL | 108-38-3 | 1 - 5 |
| METHYLTRIMETHOXYSILANE | 1185-55-3 | 1 - 5 |
| O-BENZENE, DIMETHYL O-XYLOL | 95-47-6 | 0.5 - 1.5 |
| P-BENZENE, DIMETHYL P-XYLOL | 106-42-3 | 0.5 - 1.5 |
| Titanium peroxide TIOXIDE | 13463-67-7 | 0.1 - 1 |
| | | |
| | CAS number | % |
| | 67-56-1 | Not Known |
| | 64-19-7 | Not Known |
| | Not Available Silver-metal Argentum Siloxanes and Silicones, di-Me, hydroxy-terminated DIMETHYL(POLYSILOXANE) ETHYLBENZOL PHENYLETHANE M-BENZENE, DIMETHYL M-XYLOL METHYLTRIMETHOXYSILANE O-BENZENE, DIMETHYL O-XYLOL P-BENZENE, DIMETHYL P-XYLOL Titanium peroxide | Not Available 65997-17-3 Silver-metal 7440-22-4 Argentum 70131-67-8 Siloxanes and Silicones, di-Me, hydroxy-terminated DIMETHYL(POLYSILOXANE) ETHYLBENZOL 100-41-4 PHENYLETHANE 108-38-3 M-BENZENE, DIMETHYL 108-38-3 M-XYLOL 1185-55-3 O-BENZENE, DIMETHYL 95-47-6 O-XYLOL 9-BENZENE, DIMETHYL 106-42-3 P-XYLOL 106-42-3 P-XYLOL 13463-67-7 TIOXIDE CAS number |

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29CFR1910.1200.

Composition comments

FORMALDEHYDE

Decomposition Chemical name

> The above Byproducts are possible decomposition products in case of hydrolysis. The above decomposition products are released when the product is heated above 150°C.

4. First-aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If breathing stops, provide artificial

respiration. When symptoms persist or in all cases of doubt, seek medical advice.

Skin contact Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of

water. When symptoms persist or in all cases of doubt, seek medical advice. Wash contaminated

clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention Eye contact

immediately.

Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having Ingestion

convulsions. Get medical attention.

Material name: CHO-BOND 1035 SDS US Most important symptoms/effects, acute and delayed

May cause mild to moderate skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause mild to moderate eye irritation. Symptoms may include stinging and tearing. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

When heated above 150°C in air, may release formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant. Formaldehyde may cause sensitisation by skin contact. Formaldehyde has shown limited evidence of a carcinogenic effect.

Indication of immediate medical attention and special treatment needed

General information

media

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water. May react with water.

Specific hazards arising from the chemical

During cure, vapours are released which may be harmful. Upon completion of the curing process, these hydrolysis products are no longer released.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions Firefighters should wear full protective gear. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. When heated above 150°C in air, may release formaldehyde gas. May slowly hydrolyze in the presence of water to: Acetic Acid. Methanol.

Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Hazardous combustion products

Carbon oxides. Metal oxides. Formaldehyde. Silicon oxides. Aldehydes. Hydrocarbons.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Restrict access to area until completion of clean-up. Wear appropriate protective equipment and clothing during clean-up. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up Remove sources of ignition. Ventilate the contaminated area. Stop leak if you can do so without risk. Cover spilled solid with inert, absorbent material, such as sand, then place in suitable, covered container for later disposal. For waste disposal, see Section 13. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Use only in well-ventilated areas. Wear chemically resistant protective equipment during handling. Avoid breathing dust or fumes. Avoid contact with eyes, skin, and clothing. Keep away from heat and sources of ignition. Protect from moisture. Keep container tightly closed. Empty containers retain residue and can be dangerous. Wash hands after handling and before eating.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Inspect periodically for damage or leaks.

8. Exposure controls/personal protection

Occupational exposure limits

| US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | | | | |
|--|------|-------|--|--|
| Decomposition | Туре | Value | | |
| FORMALDEHYDE (CAS 50-00-0) | STEL | 2 ppm | | |

Material name: CHO-BOND 1035 SDS US 3 / 15

| Decomposition | Type | Value | |
|--------------------------------------|---------------------------------|--------------------|---------------------|
| | TWA | 0.75 ppm | |
| US. OSHA Table Z-1 Limits for Air | Contaminants (29 CFR 1910.1000) | | |
| Components | Туре | Value | Form |
| ETHYLBENZENE (CAS 100-41-4) | PEL | 435 mg/m3 | |
| | | 100 ppm | |
| M-XYLENE (CAS 108-38-3) | PEL | 435 mg/m3 | |
| | | 100 ppm | |
| O-XYLENE (CAS 95-47-6) | PEL | 435 mg/m3 | |
| D VV// ENE (O 4 0 4 0 0 4 0 0) | 051 | 100 ppm | |
| P-XYLENE (CAS 106-42-3) | PEL | 435 mg/m3 | |
| Cibrar (CAC 7440 00 4) | DEL | 100 ppm | |
| Silver (CAS 7440-22-4) | PEL | 0.01 mg/m3 | Total dust |
| Titanium Dioxide (CAS 13463-67-7) | PEL | 15 mg/m3 | Total dust. |
| Byproducts | Туре | Value | |
| ACETIC ACID | PEL | 25 mg/m3 | |
| (CAS 64-19-7) | | 10 | |
| METHANIOL | DEI | 10 ppm | |
| METHANOL (CAS 67-56-1) | PEL | 260 mg/m3 | |
| (0/10/0// 00/1) | | 200 ppm | |
| US. ACGIH Threshold Limit Values | 3 | | |
| Components | Туре | Value | Form |
| ETHYLBENZENE (CAS | TWA | 20 ppm | |
| 100-41-4) | | | |
| Fiberglass Fibers (CAS | TWA | 1 fibers/cm3 | Fiber. |
| 65997-17-3) | | Γ α. / O | labalabla fuantian |
| M VVI ENE (CAS 100 20 2) | STEL | 5 mg/m3 | Inhalable fraction. |
| M-XYLENE (CAS 108-38-3) | TWA | 150 ppm 100 ppm | |
| O-XYLENE (CAS 95-47-6) | STEL | 150 ppm | |
| O-XTEENE (OAS 93-47-0) | TWA | 100 ppm | |
| P-XYLENE (CAS 106-42-3) | STEL | 150 ppm | |
| 1 X122142 (0/10 100 42 0) | TWA | 100 ppm | |
| Silver (CAS 7440-22-4) | TWA | 0.1 mg/m3 | Dust and fume. |
| Titanium Dioxide (CAS | TWA | 10 mg/m3 | Bast and famo. |
| 13463-67-7) | | 10 mg/m3 | |
| Byproducts | Туре | Value | |
| ACETIC ACID | STEL | 15 ppm | |
| (CAS 64-19-7) | TWA | 10 ppm | |
| METHANOL | STEL | 250 ppm | |
| (CAS 67-56-1) | O.LL | 200 ppiii | |
| , | TWA | 200 ppm | |
| Decomposition | Туре | Value | |
| FORMALDEHYDE (CAS 50-00-0) | Ceiling | 0.3 ppm | |
| US. NIOSH: Pocket Guide to Chem | ical Hazards | | |
| Components | Type | Value | Form |
| ETHYLBENZENE (CAS 100-41-4) | STEL | 545 mg/m3 | |
| , | | 125 ppm | |
| | TWA | 435 mg/m3 | |

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| Components | Туре | Value | Form |
|--|---------------|--------------|--------------------|
| | | 100 ppm | |
| Fiberglass Fibers (CAS 65997-17-3) | TWA | 3 fibers/cm3 | Dust. |
| , | | 3 fibers/cm3 | Fiber. |
| | | 5 mg/m3 | fibers, total dust |
| | | 5 mg/m3 | Fiber, total |
| M-XYLENE (CAS 108-38-3) | STEL | 655 mg/m3 | |
| | | 150 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| O-XYLENE (CAS 95-47-6) | STEL | 655 mg/m3 | |
| • | | 150 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| P-XYLENE (CAS 106-42-3) | STEL | 655 mg/m3 | |
| , | | 150 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| Silver (CAS 7440-22-4) | TWA | 0.01 mg/m3 | Dust. |
| Byproducts | Туре | Value | |
| ACETIC ACID | STEL | 37 mg/m3 | |
| (CAS 64-19-7) | | 15 ppm | |
| | TWA | 25 mg/m3 | |
| | | 10 ppm | |
| METHANOL | STEL | 325 mg/m3 | |
| (CAS 67-56-1) | 0 | 0_0g/c | |
| , | | 250 ppm | |
| | TWA | 260 mg/m3 | |
| | | 200 ppm | |
| | _ | Value | |
| Decomposition | Туре | value | |
| Decomposition FORMALDEHYDE (CAS 50-00-0) | Type Ceiling | 0.1 ppm | |

Biological limit values

ACGIH Biological Exposure Indices Components Value **Determinant Specimen Sampling Time** ETHYLBENZENE (CAS Sum of Creatinine in 0.7 g/g100-41-4) mandelic acid urine and phenylglyoxylic acid M-XYLENE (CAS 108-38-3) 1.5 g/g Methylhippuric Creatinine in acids urine O-XYLENE (CAS 95-47-6) 1.5 g/g Methylhippuric Creatinine in acids urine P-XYLENE (CAS 106-42-3) 1.5 g/g Methylhippuric Creatinine in acids urine Determinant **Byproducts** Value **Specimen Sampling Time METHANOL** 15 mg/l Methanol Urine (CAS 67-56-1)

Occupational Exposure Limits are not relevant to the current physical form of the product. **Exposure guidelines**

US - California OELs: Skin designation

METHANOL (CAS 67-56-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

METHANOL (CAS 67-56-1) Skin designation applies.

Material name: CHO-BOND 1035

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^{* -} For sampling details, please see the source document.

US - Tennesse OELs: Skin designation

METHANOL (CAS 67-56-1)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

METHANOL (CAS 67-56-1) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

METHANOL (CAS 67-56-1)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles are recommended. Provide an emergency eye wash fountain and quick drench

shower in the immediate work area.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits. Advice should be sought from respiratory protection specialists.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Solid. Paste.

Color Grey.

Odor Not available.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point This product has been tested in accordance with ASTM D4359, and was determined to be a solid.

Therefore, flashpoint testing does not apply to this product.

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Insoluble. May react with water.

Partition coefficient Not available. (n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Percent volatile Negligible

2 Specific gravity VOC (Weight %) 145 q/l

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport. May

slowly hydrolyze in the presence of water to: Methanol. Acetic acid. Upon completion of the curing

process, these hydrolysis products are no longer released.

Material is stable under normal conditions. When heated above 150°C in air, may release Chemical stability

formaldehyde gas.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Direct sources of heat. Do not use in areas without adequate

ventilation. Protect from moisture.

Strong oxidizing agents. Strong acids. Bases. Water, moisture. Incompatible materials

Hazardous decomposition

products

Formaldehyde. Refer to hazardous combustion products in Section 5.

11. Toxicological information

Information on likely routes of exposure

Ingestion May cause discomfort if swallowed.

Inhalation May cause irritation to the respiratory system. May cause central nervous system effects.

May cause mild to moderate skin irritation. Skin contact

Eve contact May cause moderate eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics May cause mild to moderate eye irritation. Symptoms may include stinging and tearing. May cause mild to moderate skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause respiratory irritation. Symptoms may include upper

respiratory irritation, coughing, and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous

system effects.

Formaldehyde gas causes moderate to severe eye irritation. Formaldehyde causes severe respiratory irritation, lung inflammation and pulmonary edema. Formaldehyde may cause sensitisation by skin contact. Formaldehyde has shown limited evidence of a carcinogenic effect.

Information on toxicological effects

Acute toxicity The below product data is the calculated ATE values for this mixture. Individual ingredient

component data appears below the product mixture ATE values.

Product Species Test Results CHO-BOND 1035 (CAS Mixture) **Acute** Dermal LD50 Rabbit 12033 mg/kg Inhalation LC50 Rat 110.81 mg/l Oral LD50 Rat 14313 mg/kg Components **Species Test Results**

Dimethyl Siloxane, Hydroxy-terminated (CAS 70131-67-8)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat > 11.59 mg/l, 4 Hours (mist)

| Components | Species | Test Results |
|---|---------|-------------------------------|
| Oral | Det | 15400 |
| LD50 | Rat | > 15400 mg/kg |
| ETHYLBENZENE (CAS 100-41-4) Acute | | |
| Dermal | | |
| LD50 | Rabbit | 15380 mg/kg |
| Inhalation | | |
| LC50 | Rat | 4000 ppm, 4 hours (vapor) |
| | | 17.4 mg/l, 4 hours (vapor) |
| Oral | | |
| LD50 | Rat | 3500 mg/kg |
| M-XYLENE (CAS 108-38-3) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 12130 mg/kg |
| Inhalation | Det | 7000 nnm 4 haire (\(\lambda\) |
| LC50 | Rat | 7330 ppm, 4 hours (Vapor) |
| <i>Oral</i> LD50 | Rat | 5011 mg/kg |
| | ndi | 3011 mg/kg |
| O-XYLENE (CAS 95-47-6) Acute | | |
| Dermal | | |
| LD50 | Rabbit | 3160 - 5010 mg/kg |
| Inhalation | | |
| LC50 | Rat | 5305 ppm, 4 hours (Vapor) |
| Oral | | |
| LD50 | Rat | 3000 mg/kg |
| P-XYLENE (CAS 106-42-3) | | |
| Acute | | |
| Dermal | B.113 | 5000 1// |
| LD50 | Rabbit | > 5000 ml/kg |
| Inhalation LC50 | Rat | 4740 ppm, 4 hours (Vapor) |
| Oral | ndi | 4740 ppiii, 4 nours (vapor) |
| LD50 | Rat | 4030 mg/kg |
| Silver (CAS 7440-22-4) | | .ooo mg/kg |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg |
| Inhalation | | |
| LC50 | Rat | No Data in Literature |
| Oral | | |
| LD50 | Rat | > 2000 mg/kg |
| Titanium Dioxide (CAS 13463-67-7) Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 10000 mg/kg |
| Inhalation | B . | |
| LC50 | Rat | > 6.82 mg/l, 4 Hours Dust |

| Components | Species | Test Results |
|-------------------------------|---|--|
| Oral | | |
| LD50 | Rat | > 25000 mg/kg |
| Trimethoxymethylsilane (CAS 1 | 185-55-3) | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 9500 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 51.4 mg/l, 4 hours (Vapor) |
| Oral | | |
| LD50 | Rat | > 9500 mg/kg |
| Byproducts | Species | Test Results |
| ACETIC ACID (CAS 64-19-7) | | |
| Acute | | |
| Dermal LDF0 | Dobbit | 1000 |
| LD50 | Rabbit | 1060 mg/kg |
| <i>Inhalation</i> LC50 | Mouse | 2810 ppm, 4 hours (vapor) |
| LOSU | Mouse | |
| | | 6.95 mg/l, 4 Hours (vapor) |
| | Rat | 4653 ppm, 4 hours (vapor) |
| | | 11.4 mg/l, 4 hours (vapor) |
| Oral | | |
| LD50 | Rat | 3310 mg/kg |
| METHANOL (CAS 67-56-1) | | |
| Acute | | |
| Dermal | Marelana | 200 // |
| LD50 | Monkey | > 393 mg/kg |
| | Rabbit | 15800 mg/kg |
| Inhalation | D-1 | 4.4 (22.7)((4)- (1.2.7.2.1) |
| LC50 | Rat | > 4.1 mg/l/4h (vapor) |
| Oral | | 000 4000 // / // / // |
| LD50 | Human | 300 - 1000 mg/kg (estimated human lethal dose) |
| | Rat | 5628 mg/kg |
| Decomposition | Species | Test Results |
| FORMALDEHYDE (CAS 50-00 | | restricants |
| Acute | -0) | |
| Dermal | | |
| LD50 | Rabbit | 300 mg/kg |
| Inhalation | | 0 0 |
| LC50 | Rat | 287 ppm, 4 hours (gas) |
| Oral | | |
| LD50 | Human | 317 - 475 mg/kg (estimated human lethal |
| | | dose) |
| | Rat | 800 mg/kg |
| * Estimatos for product ma | y be based on additional component data | not shown |
| Skin corrosion/irritation | May cause mild to moderate skin irri | |
| Serious eve damage/eve | May cause moderate eye irritation. | |

Serious eye damage/eye

May cause moderate eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization This product is not expected to cause respiratory sensitization.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

ETHYLBENZENE (CAS 100-41-4)
2B Possibly carcinogenic to humans.
Fiberglass Fibers (CAS 65997-17-3)
2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

FORMALDEHYDE (CAS 50-00-0) 1 Carcinogenic to humans.

M-XYLENE (CAS 108-38-3)

O-XYLENE (CAS 95-47-6)

P-XYLENE (CAS 106-42-3)

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

Titanium Dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

FORMALDEHYDE (CAS 50-00-0) Cancer
US. National Toxicology Program (NTP) Report on Carcinogens

Fiberglass Fibers (CAS 65997-17-3)

Reasonably Anticipated to be a Human Carcinogen.

FORMALDEHYDE (CAS 50-00-0) Known To Be Human Carcinogen.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure

Not classified as a specific target organ toxicity -single exposure.

Specific target organ toxicity -

Not classified as a specific target organ toxicity -repeated exposure.

repeated exposure

Chronic effects

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Silver in the form of a finely divided dust may cause discoloration in contact with skin and

argyrosis in case of inhalation. Prolonged or repeated overexposure may cause liver and kidney

effects.

Aspiration toxicity Not likely, due to the form of the product.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | | Species | Test Results |
|--------------------|-------------|--|---------------------|
| ETHYLBENZENE (CA | S 100-41-4) | | |
| Aquatic | | | |
| Acute | | | |
| Algae | EC50 | Green algae (Selenastrum capricornutum) | 3.6 mg/l, 96 hours |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.81 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 4.2 mg/l, 96 hours |
| M-XYLENE (CAS 108 | -38-3) | | |
| Aquatic | | | |
| Acute | | | |
| Algae | EC50 | Green Algae (Pseudokirchneriella subcapitata) | 4.9 mg/l, 72 hours |
| Crustacea | EC50 | Water flea (Daphnia magna) | 4.7 mg/l, 24 hours |
| Fish | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 8.4 mg/l, 96 hours |
| O-XYLENE (CAS 95-4 | 17-6) | | |
| Aquatic | | | |
| Acute | | | |
| Algae | EC50 | Green Algae (Pseudokirchneriella subcapitata) | 4.7 mg/l, 72 hours |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1 mg/l, 24 hours |

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| Components | | Species | Test Results |
|--|-------------------|--|--|
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 7.6 mg/l, 96 hours |
| P-XYLENE (CAS 106-4 | 12-3) | | |
| Aquatic | | | |
| Acute | | | |
| Algae | EC50 | Green Algae (Pseudokirchneriella subcapitata) | 4.36 mg/l, 72 hours |
| Crustacea | EC50 | Water flea (Daphnia magna) | 3.6 mg/l, 24 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.6 mg/l, 96 hours |
| Chronic | | | |
| Algae | NOEC | Green Algae (Pseudokirchneriella subcapitata) | 0.44 mg/l, 72 hours |
| Crustacea | NOEC | Water flea (Daphnia magna) | 1.57 mg/l, 21 days |
| Trimethoxymethylsilane Aquatic <i>Acute</i> | e (CAS 1185-55-3) | | |
| Algae | EC50 | Green Algae (Pseudokirchneriella subcapitata) | > 120 mg/l, 72 hours (hydrolysis product and/or parent compound) |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 122 mg/l, 48 hours (hydrolysis product and/or parent compound) |
| Fish | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) | > 110 mg/l, 96 hours (hydrolysis product and/or parent compound) |
| Chronic | | | |
| Algae | NOEC | Green Algae (Pseudokirchneriella subcapitata) | 120 mg/l, 72 hours (hydrolysis product and/or parent compound) |
| Byproducts | | Species | Test Results |
| ACETIC ACID (CAS 64 | -19-7) | | |
| Aquatic | | | |
| Acute | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 65 mg/l, 48 hours |
| Fish | LC50 | Zebra danio (Danio rerio) | > 300.82 mg/l, 96 hours |
| Chronic | | | |
| Crustacea | NOEC | Water flea (Daphnia magna) | 37.9 mg/l, 21 day |
| METHANOL (CAS 67-5 | 56-1) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 10000 mg/l, 48 hours |
| Acute | | | |
| Algae | EC50 | Green algae (Scenedesmus quadricauda) | > 1000 mg/l, 96 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 15400 mg/l, 96 hours |
| Decomposition | | Species | Test Results |
| FORMALDEHYDE (CA | S 50-00-0) | - | |
| Aquatic Acute | • | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 5.8 mg/l, 48 hours |
| Fish | LC50 | Striped bass (Morone saxatilis) | 6.7 mg/l, 96 hours |
| Chronic | 2000 | cuipod bass (moisile saxalins) | ogr, oo noaro |
| Fish | NOEC | Japanese rice fish (Oryzias latipes) | > 48 mg/l, 28 days |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

ETHYLBENZENE 3.15 M-XYLENE 3.2 **O-XYLENE** 3.12 P-XYLENE 3.15 ACETIC ACID -0.17**METHANOL** -0.77FORMALDEHYDE 0.35

Bioconcentration factor (BCF)

ETHYLBENZENE 1.1 - 1.5ACETIC ACID 3.2 **FORMALDEHYDE**

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

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

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

US RCRA Hazardous Waste U List: Reference

FORMALDEHYDE (CAS 50-00-0) U122 U154 METHANOL (CAS 67-56-1) M-XYLENE (CAS 108-38-3) U239 O-XYLENE (CAS 95-47-6) U239 P-XYLENE (CAS 106-42-3) U239

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ACETIC ACID (CAS 64-19-7) Listed. Listed. ETHYLBENZENE (CAS 100-41-4) Listed. METHANOL (CAS 67-56-1) M-XYLENE (CAS 108-38-3) Listed. O-XYLENE (CAS 95-47-6) Listed. P-XYLENE (CAS 106-42-3) Listed. Silver (CAS 7440-22-4) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

> Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

| Chemical name | CAS number | Reportable quantity | Threshold planning quantity | Threshold planning quantity, lower value | Threshold planning quantity, upper value |
|---------------|------------|---------------------|-----------------------------|--|--|
| FORMALDEHYDE | 50-00-0 | 100 | 500 lbs | | |

50-00-0 100 FORMALDEHYDE

SARA 311/312 Hazardous

No

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|---------------|------------|-----------|--|
| Silver | 7440-22-4 | 5 - 10 | |
| ETHYLBENZENE | 100-41-4 | 1 - 5 | |
| M-XYLENE | 108-38-3 | 1 - 5 | |
| O-XYLENE | 95-47-6 | 0.5 - 1.5 | |
| P-XYLENE | 106-42-3 | 0.5 - 1.5 | |

Other federal regulations

chemical

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ETHYLBENZENE (CAS 100-41-4)

METHANOL (CAS 67-56-1)

M-XYLENE (CAS 108-38-3)

O-XYLENE (CAS 95-47-6)

P-XYLENE (CAS 106-42-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

ACETIC ACID (CAS 64-19-7)

ETHYLBENZENE (CAS 100-41-4)

Fiberglass Fibers (CAS 65997-17-3)

METHANOL (CAS 67-56-1)

M-XYLENE (CAS 108-38-3)

O-XYLENE (CAS 95-47-6)

P-XYLENE (CAS 106-42-3)

Silver (CAS 7440-22-4)

Titanium Dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

ACETIC ACID (CAS 64-19-7)

ETHYLBENZENE (CAS 100-41-4)

Fiberglass Fibers (CAS 65997-17-3)

METHANOL (CAS 67-56-1)

M-XYLENE (CAS 108-38-3)

O-XYLENE (CAS 95-47-6)

P-XYLENE (CAS 106-42-3)

Silver (CAS 7440-22-4)

Titanium Dioxide (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

ACETIC ACID (CAS 64-19-7)

ETHYLBENZENE (CAS 100-41-4)

Fiberglass Fibers (CAS 65997-17-3)

SDS US

METHANOL (CAS 67-56-1) M-XYLENE (CAS 108-38-3) O-XYLENE (CAS 95-47-6) P-XYLENE (CAS 106-42-3) Silver (CAS 7440-22-4)

Titanium Dioxide (CAS 13463-67-7)

US. Rhode Island RTK

ACETIC ACID (CAS 64-19-7) ETHYLBENZENE (CAS 100-41-4) METHANOL (CAS 67-56-1) M-XYLENE (CAS 108-38-3) O-XYLENE (CAS 95-47-6) P-XYLENE (CAS 106-42-3) Silver (CAS 7440-22-4)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004 Fiberglass Fibers (CAS 65997-17-3) Listed: July 1, 1990 Titanium Dioxide (CAS 13463-67-7) Listed: September 2, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Inventory name

METHANOL (CAS 67-56-1) Listed: March 16, 2012

International Inventories

Country(s) or region

| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
|-------------|--|-----|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

Toxic Substances Control Act (TSCA) Inventory

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 06-20-2014

Version # 01

United States & Puerto Rico

Material name: CHO-BOND 1035 SDS US

Yes

On inventory (yes/no)*

List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CEPA: Canadian Environmental Protection Act

CPR: Controlled Products Regulation CSA: Canadian Standards Association DOT: Department of Transportation DSL: Domestic Substance List

HMIS: Hazardous Materials Identification System

HPA: Hazardous Protection Act

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer IATA: International Air Transport Association ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NFPA: National Fire Protection Association NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organisation for Economic Co operation and Development

OEL: National occupational exposure limits

OSHA: Occupational Safety and Health Administration

PPE: Personal Protective Equipment

RCRA: Resource Conservation and Recovery Act

RQ: Reportable Quantity

RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit

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Disclaimer

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