

SAFETY DATA SHEET
DECO 20 Clear Penetrating Sealer



Version: 1.0 **Issue Date:** 01/01/2016 **Revision Date:** 01/01/2016 **Original Issue Date:** 01/01/2015

1. IDENTIFICATION

Product Name: DECO 20 Clear Penetrating Sealer

Product Code: DPC0207900

Manufacturer or Supplier's Details:

Company Name of Supplier: DECO Products. Inc.

Address: 7900 E. 40th Avenue
Denver, CO 80207

Office Phone: 303-316-4820

Emergency Phone: 800-500-3326

Recommended use of the chemical and restrictions on use:

Recommended Use: Sealing for new and existing concrete

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion: Category 2

Serious Eye Damage: Category 2

GHS Label Element



Hazard Pictograms:

Signal Word: Warning

Hazard Statements: H314 - Might cause skin burns and eye damage
H318 - Might cause eye damage

Precautionary Statements

Preventions: P264 - Wash skin thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection

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Response: P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P363 - Wash contaminated clothing before reuse.

Storage: P405 - Store locked up.

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

Other Hazards Known: None Known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Chemical Nature: Silicone resin solution

Hazardous Ingredients:

| Chemical Name | CAS-No. | Concentration (%) |
|-------------------------------|------------|-------------------|
| Potassium Methysilanetriolate | 31795-24-1 | >= 5 - < 50 |
| Methanol | 67-56-1 | >= .015 - < 1 |

4. FIRST AID MEASURES

General Advice: In the case of accident or if you feel sick, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

If Inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

In case of Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In Case of Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.

If Swallowed: DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

Most Important Symptoms And effects; both acute and delayed: Can cause serious eye damage, Severe burns and digestive tract burns.

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Protection of First-Aiders: First Aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists.

Notes to Physician: Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES:

Suitable Extinguishing Media: Water Spray, Alcohol-Resistant Foam, Dry Chemical, Carbon Dioxide (CO₂)

Unsuitable Extinguishing Media: None Known.

Specific Hazards During Fire Fighting: Exposure to combustion products may be a hazard to health

Hazardous Combustion Products: Carbon Dioxides, Silicon Oxides, Metal Oxides, Formaldehyde

Specific Extinguishing Methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special Protective Equipment For Fire-fighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

Environmental Precautions: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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7. HANDLING AND STORAGE

- Technical Measures:** See engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total Ventilation:** Use with local exhaust ventilation.
- Advice on Safe Handling:** Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.
- Conditions for Safe Storage:** Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
- Materials to Avoid:** Do not store with the following product types: Strong Oxidizing Agents, Organic Peroxides, Explosives

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with Workplace Control Parameters:

| Ingredients | CAS-No. | Value Type (Form of Exposure) | Control Parameters/Permissible Concentration | Basis |
|-------------|---------|-------------------------------|--|--------------|
| Methanol | 67-56-1 | TWA | 200 ppm | ACGIH |
| | | STEL | 250 ppm | ACGIH |
| | | TWA | 200 ppm 260 mg/m3 | NIOSH REL |
| | | ST | 250 ppm 325 mg/m3 | NIOSH REL |
| | | TWA | 200 ppm 260 mg/m3 | OSHA Z-1 |

Hazardous Components without Workplace Control Parameters:

| Ingredients | CAS-No. |
|--------------------------------|------------|
| Potassium Methylsilanetriolate | 31795-24-1 |

Biological Occupational Exposure Limits:

| Ingredients | CAS-No. | Control Parameters | Biological Specimen | Sampling Time | Permissible Concentration | Basis |
|-------------|---------|--------------------|---------------------|---|---------------------------|--------------|
| Methanol | 67-56-1 | Methanol | Urine | End of Shift – As soon as possible after exposure ceases. | 15 mg/l | ACGIH BEI |

Engineering Measures: Processing may form hazardous compounds (See Section 10).

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Personal Protective Equipment

- Respiratory Protection:** General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand Protection:** Rubber or Plastic Gloves
- Remarks:** Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Eye Protection:** Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear a Face-Shield.
- Skin and Body Protection:** Select appropriate clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.)
- Hygiene Measures:** Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before reuse. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Liquid
- Color:** Colorless
- Odor:** No Data Available
- Odor Threshold:** No Data Available
- pH:** 13
- Melting/Freezing Point:** No Data Available
- Initial Boiling Point and Range:** > 64 °C
- Flash Point:** > 100 °C - Method: closed cup
- Evaporation Rate:** No Data Available

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| | |
|----------------------------------|--|
| VOC Content: | < 0.41 Lbs. per gal. (< 50 grams per liter) |
| Upper Explosion Limit: | No data Available |
| Lower Explosion Limit: | No data Available |
| Vapor Pressure: | No data Available |
| Relative Vapor Density: | No data Available |
| Relative Density: | 1.29 |
| Solubility(ies) | No data Available |
| Water Solubility: | |
| Partition Coefficient | No data Available |
| Noctanol/Water: | |
| Autoignition Temperature: | No data Available |
| Thermal Decomposition: | No Data Available |
| Viscosity, Kinematic: | 10 cSt |
| Explosive Properties: | Not Explosive |
| Oxidizing Properties: | The substance or mixture is not classified as oxidizing. |
| Molecular Weight: | No Data Available |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Reactivity: | Not classified as a reactivity hazard. |
| Chemical Stability: | Stable under normal conditions. |
| Possibility of hazardous Reactions: | Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures. |
| Conditions to Avoid: | None Known. |
| Incompatible Materials: | Oxidizing agents – Acids |

Hazardous Decomposition Products

| | |
|-------------------------------|--------------|
| Thermal Decomposition: | Formaldehyde |
|-------------------------------|--------------|

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation, Skin Contact, Ingestion, Eye Contact

| | |
|------------------------|--|
| Acute Toxicity: | Not classified based on available information. |
|------------------------|--|

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Product

Acute Oral Toxicity: Acute Toxicity Estimate >5,000 mg/kg
Method – Calculation Method

Acute Inhalation Toxicity: Acute Toxicity Estimate > 40 mg/l
Exposure Time – 4 Hours
Test Atmosphere – Vapor
Method – Calculation Method

Acute Dermal Toxicity: Acute Toxicity Estimate >5,000 mg/kg
Method – Calculation method

Ingredients

Potassium Methylsilanetriolate:

Acute Oral Toxicity: LD50 (Rat) > 2,000 mg/kg
Assessment – The substance or mixture has no acute oral toxicity.
Remarks – Based on test data.

Methanol:

Acute Oral Toxicity: Acute Toxicity Estimate (Humans) 300 mg/kg
Method – Expert Judgement

Acute Inhalation Toxicity: Acute Toxicity Estimate (Humans) 3 mg/l
Test Atmosphere - Vapor
Method – Expert Judgement

Acute Dermal Toxicity: Acute Toxicity Estimate (Humans) 300 mg/kg
Method – Expert Judgement

Skin Corrosion/Irritation

Causes severe burns

Ingredients:

Potassium Methylsilanetriolate: Result – Corrosive after 3 minutes or less of exposure.
Remarks – Information taken from reference works and the literature.

Methanol: Species – Rabbit
Result – No skin irritation

Serious Eye Damage

Causes serious eye damage.

Ingredients:

Potassium Methylsilanetriolate: Result – Irreversible effects on the eye.
Remarks – Expert Judgement

Methanol: Species – Rabbit
Result – No eye irritation

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Respiratory or Skin Sensitization

Skin: Not classified based on available information.

Respiratory: Not classified based on available information.

Ingredients:

Methanol: Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative

Germ Cell Mutagenicity

Not classified based on available information.

Ingredients:

Potassium Methylsilanetriolate: Genotoxicity in Vitro

Test Type – Bacterial reverse mutation assay (AMES)
Result – Negative
Remarks – Based on test data.

Genotoxicity in Vitro

Test Type – Mammalian erythrocyte micronucleus test (in vitro cytogenetic assay)
Test species – Mouse
Application Route – Ingestion
Result – negative
Remarks – Based on data from similar materials

Germ Cell Mutagenicity Assessment

Animal testing did not show any mutagenic effects.

Methanol:

Genotoxicity in Vitro

Test Type – Bacterial reverse mutation assay (AMES)
Method – OECD Test Guideline 471
Result – Negative

Test Type – In vitro mammalian cell gene mutation test
Method – OECD Test Guideline 476
Result – Negative

Genotoxicity in Vitro

Test Type – Mammalian erythrocyte micronucleus test (in vitro cytogenetic assay)
Test species – Mouse
Application Route – Intraperitoneal Injection
Result – Negative

Carcinogenicity

Not classified based on available information.

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Ingredients:

Methanol: Species – Mouse
Application Route – Inhalation (vapor)
Exposure Time – 18 Months
Method – OECD Test Guidelines 453
Result – Negative

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

OSHA: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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

Reproductive Toxicity

Not classified based on available information.

Ingredients:

Potassium Methylsilanetriolate:

Effects on Fertility: Test Type – Combined repeated dose toxicity study with the reproduction and Developmental toxicity screening test.
Species – Rat, male and female
Application Route – Ingestion
Symptoms – No effects on fertility
Remarks – Based on data from similar materials

Effects on fetal development: Test Type – Combined repeated dose toxicity study with the reproduction and Developmental toxicity screening test.
Species – Rat, male and female
Application Route – Ingestion
Symptoms – No effects on fetal development
Remarks – Based on data from similar materials

Reproductivity Toxicity: Assessment – No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.

Methanol:

Effects on Fertility: Test Type – Fertility/Early Embryonic Development
Species – Mouse
Application Route – Ingestion
Result - Negative

Effects on Fetal Development: Test Type – Embryo-Fetal Development
Species – Mouse
Application Route – Ingestion
Method – OECD Test Guideline 414
Result – Positive
Remarks – The effects were seen only at maternally toxic doses

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STOT – Single Exposure

Not classified based on available information.

Ingredients:

Methanol: Target Organs – Eyes, Central Nervous System
Assessment – Causes damage to organs

STOT – Repeated Exposure

Not classified based on available information.

Ingredients:

Potassium Methylsilanetriolate: Routes of Exposure – Ingestion
Assessment – No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Routes of Exposure – Inhalation (Vapor)
Assessment – No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Repeated Dose Toxicity

Ingredients:

Potassium Methylsilanetriolate: Species – Rat
Application Route – Ingestion
Remarks – Based on data from similar materials

Species – Rat
Application Route – Inhalation (Vapor)
Remarks – Based on data from similar materials

Methanol: Species – Rat
NOAEL – 1.06 mg/l
Application Route – Inhalation (Vapor)
Exposure Time – 90 d

Aspiration Toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Potassium Methylsilanetriolate: Toxicity to Bacteria – EC50 >100 mg/l
Method – OECD Test Guideline 209

Methanol: Toxicity to Fish – LC50 (Lepomis macrochirus (Bluegill Sunfish) 15,400 mg/l
Exposure Time – 96 H

Toxicity to Daphnia and Other Aquatic Invertebrates – EC50 (Daphnia Magna (Water Flea)) >10,000 mg/l
Exposure Time – 48 H

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Toxicity to Algae – EC50 (Pseudokirchneriella Subcapitata (Green Algae)) – 22,000 mg/l
Exposure Time – 96 H
Method – OPPTS 850.5400

Toxicity to Fish (Chronic Toxicity) – NOEC (Oryzias Latipes (Orange-Red Killifish))
15,000 mg/l
Exposure Time – 200 H

Toxicity to Bacteria – EC50 20,000 mg/l
Exposure Time – 15 H

Persistence and Degradability

Ingredients:

Methanol: Biodegradability
Result – Readily Biodegradable
Biodegradation – 95%
Exposure Time – 20 D

Bioaccumulative Potential

Ingredients:

Potassium Methylsilanetriolate: Partition Coefficient – Noctanol/Water
Log Pow -2.36

Methanol: Bioaccumulation
Species – Leuciscusa Idus (Golden Orfe)
Bioconcentration Factor (BCF) <10
Partition Coefficient – Noctanol/Water
Log Pow -0.77

Mobility in Soil

No Data Available

Other Adverse Effects

No Data Available

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Waste from Residue – Dispose of in accordance with all local, state and federal regulations.
Contaminated Packaging – Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

UNRTDG: Not regulated as Dangerous Goods
IATA-DGR Not Regulated as Dangerous Goods
IMDG – Code Not Regulated as Dangerous Goods

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied

Domestic regulation

49 CFR (172.101): Not Regulated as Dangerous Goods
Marking: None Required
Label: None Required
Placard: None Required

15. REGULATORY INFORMATION

EPCRA: Emergency Planning and Community Right-to-Know

CERCLA: Reportable Quantity

| Ingredients | CAS-No. | Component RQ (lbs.) | Calculated Product RQ (Lbs.) |
|-------------|---------|---------------------|------------------------------|
| Methanol | 67-56-1 | 5000 | * |

* Calculated RQ exceeds reasonably attainable upper limit

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards: Acute Health Hazard

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

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right to Know

Water: 7732-18-5 50-96 %
 Potassium Methylsilanetriolate: 31795-24-1 5-50 %
 Methanol: 67-56-1 0.015-1 %

New Jersey Right to Know

Water: 7732-18-5 50 - 96 %
 Potassium Methylsilanetriolate: 31795-24-1 5-50 %
 Methanol: 67-56-1 0.015-1 %

California Prop 65

WARNING: This product contains a chemical known in the state of California to cause birth defects or other reproductive harm.

Methanol: 67-56-1

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The ingredients of this product are reported in the following inventories:

| | |
|------------|--|
| NZIoC: | All ingredients listed or exempt. |
| REACH: | All ingredients (pre-) registered or exempt. |
| TSCA: | All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances. |
| AICS: | All ingredients listed or exempt. |
| IECSC: | All ingredients listed or exempt. |
| ENCS/ISHL: | All components are listed on ENCS/ISHL or exempted from inventory listing. |
| KECI: | All ingredients listed, exempt or notified. |
| DSL: | All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL). |
| PICCS: | All ingredients listed or exempt. |

Inventories:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

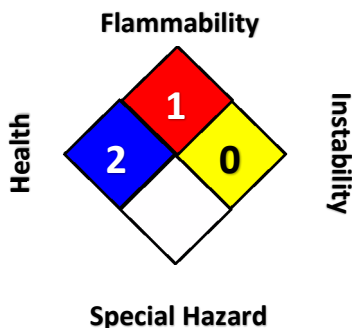
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16. OTHER INFORMATION

Further Information

NFPA:



HMIS III:

| | |
|------------------------|----------|
| HEALTH | 2 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |

Full text of other abbreviations

- ACGIH:** USA. ACGIH Threshold Limit Values (TLV)
- ACGIH BEI:** ACGIH - Biological Exposure Indices (BEI)
- NIOSH REL:** USA. NIOSH Recommended Exposure Limits
- OSHA Z-1:** USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- ACGIH / TWA:** 8-hour, time-weighted average
- ACGIH / STEL:** Short-term exposure limit
- NIOSH REL / TWA:** Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / ST:** STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- OSHA Z-1 / TWA:** 8-hour time weighted average

Sources of key data Used to compile the Material Safety Data Sheet: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date: 01/01/16

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8