TECHNICAL INFORMATION

"dry as a bone"

DECO PRODUCTS, INC.

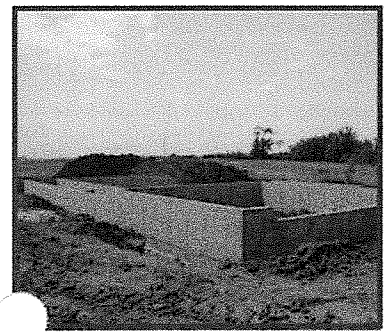
DECO 20 PENETRETING CONCRETE SEALER

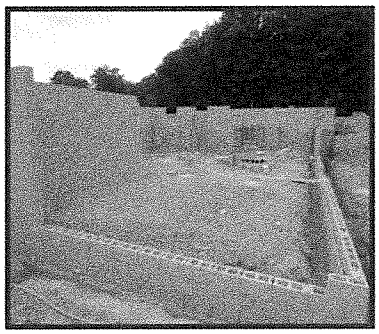
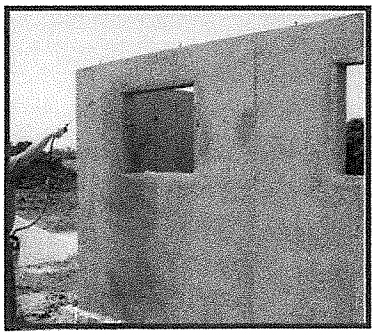
Basement Foundation Dampproofing

Product specification

DECO 20 Clear Penetrating Concrete Sealer (DECO 20) is an alternative material replacing bituminous products. It is approved for dampproofing of masonry block, pre-cast and poured concrete foundation walls. DECO 20 is a special formulated clear penetrating sealer designed for the environmental requirements in the dampproofing industry. DECO 20 produces a highly effective breathable moisture barrier, by reducing water vapor transmission.

I.C.C. Approved ESR-1416



Environmentally Friendly **Totally Water- Based** **Non- Hazardous**

B E N E F I T S

- **No grade- line problems as associated with tar**
- **Approved by the International Code Council**
- **DRIES Clear, non yellowing, no odor**
- **Dries in 4- 6 hours, no backfill interruptions**
- **East to apply, eliminates scheduling problems**
- **Excellent for interior applications**
- **Can be painted or coated over**
- **Unaffected by ultraviolet rays**
- **Non- toxic Non- hazardous Non- flammable**

Use: For approved applicators

New & existing construction: Dampproofs and seals masonry parged block, pre- cast and poured foundation walls. Apply DECO 20 with a hand pump sprayer or airless sprayer (do not exceed 100 PSI when applying) until wall is saturated. Do not repeat as the product is water based and will repel its self once it is applied. DECO 20 can also be applied to the interior side of basement foundation walls.
Contact your local rep or visit our website for a complete applicators guide.

Distributed by:

BUILT GREEN™

Made in the U.S.A.

DESIGNED FOR THE ENVIRONMENT

www.decoproducts.com
inquire@decoproducts.com

DECO PRODUCTS, Inc. 7900 E 40th Avenue Denver, CO 80207 www.decoproducts.com (800) 500-DECO

S P E C I F I C A T I O N D A T A

TEST DATA:
DECO 20 meets and/or exceeds the following ASTM tests:
ASTM D 2939 - Resistance to water solubility.
Flexibility no cracking.
ASTM D 466 - Resistance to water flow and action.
Excellent adhesion. No reemulsification.
ASTM E 96 - Water vapor transmission. - 0.04 grains/sq.ft./hour
Water vapor permeability. - 0.102 perms
ASTM C 836 - Film Thickness On Vertical Surface.
SS-W-110 C - Water Repellency On Masonry Test.
1.925% Average
ASTM C 672 - Freeze/Thaw - 20 Day Cycle

LIMITATIONS:
DO NOT GET DECO 20 ON GLASS. DECO 20 WILL CAUSE ETCHING OF GLASS AND CANNOT BE REMOVED.
If DECO 20 comes in contact with glass, clean immediately with water.
Do not let product freeze. Store indoors at temperatures above 32 degrees Fahrenheit. The temperature must be 28 degrees Fahrenheit and rising before application.
Do not dilute DECO 20. Do not apply DECO 20 when the threat of rain is imminent. Do not apply DECO 20 on glazed tile, slate, glazed brick construction, acrylics or painted finishes. Do not use DECO 20 on colored concrete. DECO 20 will not plug holes or cracks. Cover all doors and glass openings to insure product does not come in contact with them. Use caution when applying on windy days. DECO 20 is not designed to be used as a waterproofing coating to stop moisture penetration caused by cracks or holes in the surface.
KEEP OUT OF REACH OF CHILDREN

INSTALLATION:
The use of DECO 20 in no way eliminates the use of a properly installed drainage system designed for the foundation wall or properly constructed concrete foundation wall.
DECO 20 can be applied directly to block walls after the mortar joints and parging has taken its initial set. DECO 20 can be applied to poured concrete walls after the forms have been removed a minimum of 24 hours.
NOTE: On concrete and masonry block walls, perform a test of DECO 20 Clear Penetrating Concrete Sealer. After the clear sealer has dried on the concrete or masonry substrate, apply water to substrate to see if sealer repels water. If water repels, continue with the application of DECO 20 Clear Penetrating Concrete Sealer. If water absorbs into substrate and does not repel water, do not continue the application of DECO 20 Clear Penetrating Concrete Sealer. Call your local DECO representative for additional information.

Preparation:
Repair all structural deficiencies before applying DECO 20.
Cover all areas or surfaces not to be sealed, such as doors, windows and floors, prior to applying DECO 20. Concrete tie locations below grade that create holes or recesses into the wall, shall be sealed with an approved material or method.
Application:
Apply DECO 20, without dilution, with a hand-pump sprayer or airless sprayer. For spraying application, and depending upon sprayer equipment used, it is recommended that an orifice size of 0.035 inches be used for testing to insure proper material application. Apply DECO 20 until saturation. Do not interrupt application process until area is completely treated.
Equipment cleans up easily with soap and water.

APPLY ONLY ONCE

WARRANTY:
ENTIRE FOUNDATION WALL TO BE SEALED FROM TOP OF FOOTER TO TOP OF FOUNDATION WALL.
DECO 20 is warranted as specified for a period of not less than three years from date of application. DECO Products, Inc. warrants it product to be good quality and will replace or refund the purchase price of any product proved defective. It is the responsibility of the buyer to determine that this product meets their needs and to apply it properly. The application of DECO 20 requires that the installer be skilled in achieving results form applying this product. Satisfactory results depend not only upon quality product, but also upon many factors beyond DECO Products, Inc.'s control. DECO Products, Inc. makes no warranty or guarantee, expressed or implied, including warranty of fitness or merchantability respecting its products. DECO Products, Inc. shall have no other liability with respect thereto. Guarantee of this product, DECO 20, when used according to directions, is limited to refund of purchase price or replacement of product, if it is proved defective. DECO Products, Inc. shall not be liable for cost of labor, direct or incidental consequential damages.

COVERAGE:
On concrete approximately 250 Sq. Ft. Per gallon
On masonry block approximately 125 Sq. Ft. Per gallon
NOTE: Coverage rates may vary due to the porosity of the substrate.

TECHNICAL SERVICES:
Technical advice furnished by DECO Products, Inc., concerning any use or application of DECO 20 is reliable as current technology allows. DECO Products, Inc. makes no warranty, expressed or implied, of any use of application for which such advise is furnished. OTHER VOC free products for concrete, stucco, block and specialty cementitious items are available from DECO

DECO Products, Inc. 7900 E. 40th Ave. Denver, Colorado 80207 (800) 500-3326

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DECO PRODUCTS, INC.

DECO Products, Inc.
7900 E. 40th Ave., Denver, CO 80207
1-800-500-DECO Fax (303) 316-9371
www.decoproducts.com

SILACAST

DECO 20 SEAL APPLICATORS GUIDE

Deco 20 Seal is code compliant with the International Code Council (ICC) as a Below Grade Foundation Waterproofing material. Deco 20 Seal is approved at 30 wet mils and has passed all ASTM's under the Alternative Criteria (AC 29) by the ICC as an alternative to the standard 60 mil wet Bituminous application. Deco 20 Seal is not intended to replace the installation of a properly installed drainage system or properly installed foundation wall.

If this product is new to your area it is recommended to contact your local building inspector to introduce them to the material and its benefits.

On masonry block walls, Deco 20 Clear Penetrating Concrete Sealer must be used as a primer prior to the application of Deco 20 Seal. See applicators guide for installation details.

Keep a copy of the product Data Sheet and material SDS on hand and review for your own knowledge and safety. Because Deco 20 Seal is non-hazardous no special clothing or vehicle permits are required. Safety glasses, masks and gloves do provide additional protection.

Deco 20 Seal is a water based acrylic polymer resin. Because of the water based nature of this product it can be applied to damp and green concrete walls. Unlike Bituminous (asphalt) materials that deteriorate in sunlight, Deco 20 Seal is resistant to Ultra Violet rays and is intended to be applied to the top of the walls, above grade lines.

The material should always be mixed prior to use. Do not add water and keep the material stored out of direct sunlight in temperatures above freezing.

SURFACE PREPARATION

1. Remove any loose concrete or other projections from the wall surface with a brush or broom.
2. Inspect surface for any cracks, imperfections or excessive honeycombs. If present, contact the builder to inform him of the deficiencies.
3. Allow time for all form oil or solvents to dissipate if applying immediately after the form have been removed.
4. Patch all below grade tie locations, honeycombs and deficiencies with Deco Tie Patch or other material designed to repair these locations. Do not apply Deco Tie Patch over 100 mil thick. Use a hydraulic cement for larger such areas.
5. Sweep all dirt and debris from footer and pay particular attention to the intersection at the footing and wall. This is a key when waterproofing a foundation.

EQUIPMENT

Deco 20 Seal can be applied with paint brushes and rollers. For best product yield and even application it is recommended to use an airless paint sprayer the achieves a flow rate of 1.5 to 2 gallons per minute. A typical machine would be a Graco 7900. Other brands with equal performance are also acceptable. Tip size should be a reversible .531 or .631 spray tip. Use only #30 mesh filters in pump and remove any filters from spray gun. Keep pressure between 1,000 to 2,000 PSI.

APPLICATION

1. This product can be applied when the air temperature is 28 degrees and rising at the time of application. Minimum allowable temperatures are affected by wind, sunshine, humidity and heat of hydration.
2. Position vehicle in a safe place on one corner of foundation wall. Roll out hose and walk around to opposite corner of foundation. Verify that builder wants material applied above grade.
3. Begin at the bottom of wall where the footing and wall meet. Turn tip parallel with wall and spray a bead of material about an inch above the footing. This will add extra protection at the seam where the wall and footing meet.
4. In a side to side motion evenly apply material to the wall as you proceed up to the top of the foundation.
5. The material shall be installed to a 30-mil wet application which will dry down to approximately 18 dry mil (+ or – 3 mils). There are two ways of achieving this thickness.
   A. For new applicators or when applying with a roller and brush, it is recommended to apply a first coat to 15 wet mils and then reapply a second 15 mil coat after the initial surface has cured.
   B. For experienced applicators, a 30-mil wet application can be achieved in one application.
   C. 15 and 30 wet mil gauges are available from Deco Products. Please ask your rep if you need assistance on how to use these gauges.
6. Pay close attention to corners of windows, tie holes, cold joints and other places of concern when applying material.
7. Material must be completely cured prior to any installation of a protection, drainage or any other board can be applied.

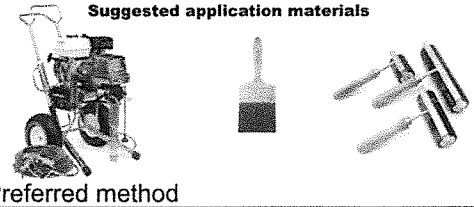
CLEAN UP

Air is the enemy in keeping the system clog free. Attempting to flush the system can create more problems than leaving the entire unit fully charged at all times with Deco 20 Seal. Also keep the end of the wand in water to prevent material hardening on the reversible tip.

Always perform a jobsite test to ensure desired results will be achieved.

DECO 20 SEAL WATERPROOFING MEMBRANE

Suggested application materials



Preferred method

DECO 20 Clear Penetrating Concrete Sealer

Version	Revision Date:	Date of last issue: 01/01/2016
1. 0	01/01/2016	Date of first issue: 01/01/2015

SECTION 1. IDENTIFICATION

Product name : DECO 20 Clear Penetrating Sealer

Product code : DPC207900

Manufacturer or supplier's details

Company name of supplier :DECO Products, Inc.

Address :7900 east 40th Ave.
Denver, CO 80207

Telephone :
303-316-4820

Emergency telephone :
800-500-3326

Recommended use of the chemical and restrictions on use

Recommended use : Sealing for new and existing concrete

SECTION 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 : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
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

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Silicone resin solution

Hazardous ingredients

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

SECTION 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 : 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 : In case of 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 : In case of 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	: 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. Can cause severe burns. Can cause digestive tract burns.
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.

SECTION 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 oxides 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.

SECTION 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.

SECTION 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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type	Control parame-	Basis

		(Form of exposure)	ters / Permissible concentration	
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	Sam-pling time	Permissible concentra-tion	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).
Minimize workplace exposure concentrations.
Use with local exhaust ventilation.

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 a 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
Material : 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: Face-shield
Skin and body protection	: Select appropriate protective 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 re-use. 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: colorless
Odor	: No data available
Odor Threshold	: No data available
pH	: 13
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: > 64 °C
Flash point	: > 100 °C Method: closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable

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)	
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, kinematic	: 10 cSt
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: No data available

SECTION 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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

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 h 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 judgment
Acute inhalation toxicity	: Acute toxicity estimate (Humans): 3 mg/l Test atmosphere: vapor Method: Expert judgment
Acute dermal toxicity	: Acute toxicity estimate (Humans): 300 mg/kg Method: Expert judgment

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/eye irritation

Causes serious eye damage.

Ingredients:

Potassium Methylsilanetriolate:
Result: Irreversible effects on the eye
Remarks: Expert judgment

Methanol:
Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.
Respiratory sensitization: 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.

Ingredients:

Methanol:
Species: Mouse
Application Route: inhalation (vapor)
Exposure time: 18 Months
Method: OECD Test Guideline 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/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/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
Reproductive 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.

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.

SECTION 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

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)): 15,800 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: n-octanol/water : log Pow: -2.36

Methanol:

Bioaccumulation : Species: Leuciscus idus (Golden orfe)
Bioconcentration factor (BCF): < 10

Partition coefficient: n-octanol/water : log Pow: -0.77

Mobility in soil
No data available

Other adverse effects
No data available

SECTION 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.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG	**Not Regulated as Dangerous Goods**
IATA-DGR	**Not Regulated as Dangerous Goods**
IMDG-Code	**Not Regulated as Dangerous Goods**

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**

SECTION 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

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.

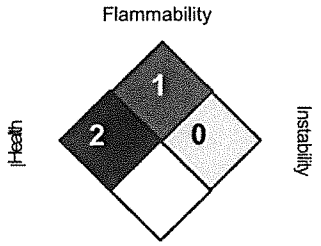
Inventories

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

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

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