

Material Safety Data Sheet



RoofKeeper / RoofSkin Elastomeric Roof Coating (Black, Brown, Grey, Green)

1. Product and company identification

Product name : RoofKeeper / RoofSkin Elastomeric Roof Coating (Black, Brown, Grey, Green)
Material uses : Elastomeric roof coating.
Supplier/Manufacturer : Techniseal
300, avenue Liberté
Candiac, QC, Canada, J5R 6X1
Tel: (514) 523-2110
Toll free: 1-800-465-7325
Fax: (450) 633-3035
Validation date : 4/25/2016
Prepared by : IHS
In case of emergency : CANUTEC (613) 996-6666

2. Hazards identification

Physical state : Liquid. [Viscous.]
Color : Various
Odor : Ammonia [Slight]
Emergency overview
Signal word : WARNING!
Hazard statements : MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. BIRTH DEFECT HAZARD - CAN CAUSE BIRTH DEFECTS. DEVELOPMENTAL HAZARD - CAN CAUSE ADVERSE DEVELOPMENTAL EFFECTS.
Precautions : Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Do not get on skin or clothing. Avoid contact with eyes. Avoid exposure during pregnancy. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects
Inhalation : No known significant effects or critical hazards.
Ingestion : Harmful if swallowed.

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Skin : Slightly irritating to the skin.
Eyes : Moderately irritating to eyes.

Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : Can cause birth defects.
Developmental effects : Can cause developmental abnormalities.
Fertility effects : No known significant effects or critical hazards.
Target organs : Contains material which may cause damage to the following organs: blood, kidneys, lungs, liver, heart, upper respiratory tract, skin, bone marrow, central nervous system (CNS), eye, lens or cornea.

Over-exposure signs/symptoms

Inhalation : No specific data.
Ingestion : No specific data.
Skin : Adverse symptoms may include the following:
irritation
redness
Eyes : Adverse symptoms may include the following:
irritation
watering
redness
Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

3. Composition/information on ingredients**United States**

Name	CAS number	%
Nepheline syenite	37244-96-5	30-60
zinc oxide	1314-13-2	1-5
Titanium dioxide	13463-67-7	1-5
ethanediol	107-21-1	1-5
carbon black non-respirable	1333-86-4	1-5
diiron trioxide	1309-37-1	1-5
benzophenone	119-61-9	1-5

Canada

Name	CAS number	%
Nepheline syenite	37244-96-5	30-60
zinc oxide	1314-13-2	1-5
Titanium dioxide	13463-67-7	1-5
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benzophenone	119-61-9	1-5

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

- Flammability of the product** : Non-flammable.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides
Monomer for acrylic polymers.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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Methods for cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Do not store below the following temperature: 15°C (59°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits
Nepheline syenite zinc oxide	ACGIH TLV (United States). TWA: 10 mg/m ³ Form: Inhalable NIOSH REL (United States, 10/2013). CEIL: 15 mg/m ³ Form: Dust TWA: 5 mg/m ³ 10 hours. Form: Dust and fumes STEL: 10 mg/m ³ 15 minutes. Form: Fume OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Fume TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2015). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction
Titanium dioxide	ACGIH TLV (United States, 3/2012). TWA: 10 mg/m ³ 8 hours. OSHA PEL (United States, 6/2010). TWA: 15 mg/m ³ 8 hours. Form: Total dust
ethanediol	ACGIH TLV (United States, 3/2015). C: 100 mg/m ³ Form: Aerosol
carbon black non-respirable	NIOSH REL (United States, 10/2013). TWA: 3.5 mg/m ³ 10 hours.

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diiron trioxide	TWA: 0.1 mg of PAHs/cm ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 3.5 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2015). TWA: 3 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2013). TWA: 5 mg/m ³ , (as Fe) 10 hours. Form: Dust and fumes OSHA PEL (United States, 2/2013). TWA: 10 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2015).
benzophenone	TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction AIHA WEEL (United States, 10/2011). TWA: 0.5 mg/m ³ 8 hours.

Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Nepheline syenite	US ACGIH	-	10		-	-	-	-	-	-	[a]
	ON 7/2015	-	10		-	-	-	-	-	-	[b]
zinc oxide	US ACGIH 3/2015	-	2		-	10	-	-	-	-	[c]
	AB 4/2009	-	2		-	10	-	-	-	-	[d]
	BC 5/2015	-	2		-	10	-	-	-	-	[d]
	ON 7/2015	-	2		-	10	-	-	-	-	[c]
	QC 1/2014	-	5		-	10	-	-	-	-	[e]
	SK	-	2		-	10	-	-	-	-	[f]
Titanium dioxide	US ACGIH 3/2012	-	10		-	-	-	-	-	-	
	AB 4/2009	-	10		-	-	-	-	-	-	[3]
	BC 4/2012	-	3		-	-	-	-	-	-	[g]
		-	10		-	-	-	-	-	-	[b]
ethanediol	ON 7/2010	-	10		-	-	-	-	-	-	[h]
	QC 9/2011	-	10		-	-	-	-	-	-	[i]
	US ACGIH 3/2015	-	-		-	-	-	-	100	-	[j]
	AB 4/2009	-	-		-	-	-	-	100	-	[k]
	BC 5/2015	-	-		-	-	-	-	100	-	[j]
		-	10		-	20	-	-	-	-	[l]
carbon black non-respirable		-	-		-	-	-	50	-	-	[m]
	ON 7/2015	-	-		-	-	-	-	100	-	[k]
	QC 1/2014	-	-		50	127	-	-	-	-	[n]
	SK	-	-		-	-	-	-	100	-	[k]
	US ACGIH 3/2015	-	3		-	-	-	-	-	-	[o]
	AB 4/2009	-	3.5		-	-	-	-	-	-	
diiron trioxide	BC 5/2015	-	3		-	-	-	-	-	-	[a]
	ON 7/2015	-	3		-	-	-	-	-	-	[o]
	QC 1/2014	-	3.5		-	-	-	-	-	-	
	SK	-	3.5		-	7	-	-	-	-	
	US ACGIH 3/2015	-	5		-	-	-	-	-	-	[c]
	AB 4/2009	-	5		-	-	-	-	-	-	[d]
diiron trioxide, as Fe	BC 5/2015	-	5		-	-	-	-	-	-	[p]
		-	5		-	10	-	-	-	-	[q]
		-	3		-	-	-	-	-	-	[g]
diiron trioxide		-	10		-	-	-	-	-	-	[b]
	ON 7/2015	-	5		-	-	-	-	-	-	[c]
diiron trioxide, as Fe	QC 1/2014	-	5		-	-	-	-	-	-	[r]
	SK	-	5		-	10	-	-	-	-	[r]
diiron trioxide, measured as Fe		-	3		-	-	-	-	-	-	[g]
benzophenone	US AIHA 10/2011	-	0.5		-	-	-	-	-	-	

[3] Skin sensitization

Form: [a]Inhalable [b]Total dust [c]Respirable fraction [d]Respirable [e]fume [f]respirable dust and fume [g]Respirable dust [h]total dust [i]Total dust. [j]Aerosol [k]aerosol [l]Particulate [m]Vapour [n]vapour and mist [o]Inhalable fraction [p]Dust [q] Fume [r]dust and fume

Consult local authorities for acceptable exposure limits.

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- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Rubber gloves.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: Splash goggles.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Overall.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

- Physical state** : Liquid. [Viscous.]
- Flash point** : Not available.
- Auto-ignition temperature** : Not available.
- Flammable limits** : Not available.
- Color** : Various
- Odor** : Ammonia [Slight]
- pH** : 8 to 10
- Boiling/condensation point** : 100°C (212°F)
- Melting/freezing point** : -3.5°C (25.7°F)
- Density** : 1.32 to 1.41 g/cm³
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- VOC content** : 0.308 lbs/gal (36.9 g/l) [ISO 11890-1]

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Odor threshold : Not available.
 Evaporation rate : Not available.
 Viscosity : Dynamic (room temperature): 1600 to 2500 mPa·s (1600 to 2500 cP)
 Solubility : Soluble in the following materials: cold water and hot water.
 LogK_{ow} : Not available.

10. Stability and reactivity

Chemical stability : The product is stable.
 Conditions to avoid : No specific data.
 Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
 Halogenated compounds.
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
 Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
ethanediol carbon black non-respirable benzophenone	LD50 Oral	Rat	4700 mg/kg	-
	LD50 Oral	Rat	>15400 mg/kg	-
	LD50 Dermal	Rabbit	3535 mg/kg	-
	LD50 Oral	Rat	>10 g/kg	-

Chronic toxicity

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc oxide ethanediol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	1 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440 milligrams	-
	Skin - Mild irritant	Rabbit	-	555 milligrams	-

Sensitizer

Not available.

Conclusion/Summary : Not available.

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Skin : May cause sensitization by skin contact.

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
ethanediol	A4	-	-	-	-	-
carbon black non-respirable	A3	2B	-	+	-	-
diron trioxide	A4	3	-	-	-	-
benzophenone	-	2B	-	-	-	-

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

12. Ecological information

Ecotoxicity : This material is very toxic to aquatic life with long lasting effects.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Zinc oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute IC50 46 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
Titanium dioxide	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 5.83 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 5.5 ppm Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 1000 mg/l Fresh water	Fish - Pimephales promelas	96 hours
ethanediol	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
	Chronic NOEC 0.984 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
benzophenone	Acute LC50 6900000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 41000000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
benzophenone	Acute LC50 8050000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 10.89 mg/l Fresh water	Fish - Pimephales promelas - Larvae	96 hours
	Chronic NOEC 1.03 mg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days

Persistence/degradability

Not available.

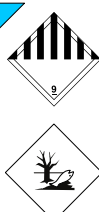
13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.





Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.					
TDG Classification	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide). Marine pollutant (zinc oxide)	9	III		<p>Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).</p> <p>Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.</p> <p><u>Explosive Limit and Limited Quantity Index</u> 5</p> <p><u>Special provisions</u> 16, 99</p>

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IMDG Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide). Marine pollutant (zinc oxide)	9	III	 	<p>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</p> <p>Emergency schedules (EmS) F-A, S-F</p> <p>Special provisions 274, 335, 969</p>
IATA-DGR Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (zinc oxide)	9	III	 	<p>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.</p> <p>Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964</p> <p>Cargo Aircraft Only Quantity limitation: 450 L Packaging instructions: 964</p> <p>Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y964</p> <p>Special provisions A97, A158, A197</p>

PG* : Packing group

15. Regulatory information

United States

- HCS Classification** : Irritating material
Target organ effects
- U.S. Federal regulations** : **TSCA 4(a) final test rules:** benzophenone
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): Not determined.
TSCA 12(b) one-time export: benzophenone
- SARA 302/304:** cadmium oxide
SARA 311/312 Hazards identification: Immediate (acute) health hazard, Delayed (chronic) health hazard
- Clean Water Act (CWA) 307:** zinc oxide; copper; cadmium oxide; lead monoxide
Clean Water Act (CWA) 311: ammonia
Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act Section 112 : Listed
(b) Hazardous Air Pollutants (HAPs)

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Clean Air Act Section 602 : Not listed
 Class I Substances

Clean Air Act Section 602 : Not listed
 Class II Substances

DEA List I Chemicals : Not listed
 (Precursor Chemicals)

DEA List II Chemicals : Not listed
 (Essential Chemicals)

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Zinc oxide	1314-13-2	1-5
	ethanediol	107-21-1	1-5
	lead monoxide	1317-36-8	0.00004
Supplier notification	Zinc oxide	1314-13-2	1-5
	ethanediol	107-21-1	1-5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: TITANIUM DIOXIDE; IRON OXIDE DUST; ETHYLENE GLYCOL; CARBON BLACK; ZINC OXIDE FUME

New York : The following components are listed: Ethylene glycol

New Jersey : The following components are listed: TITANIUM DIOXIDE; TITANIUM OXIDE (TiO₂); IRON OXIDE; FERRIC OXIDE; ETHYLENE GLYCOL; 1,2-ETHANEDIOL; CARBON BLACK; ZINC OXIDE

Pennsylvania : The following components are listed: TITANIUM OXIDE (TiO₂); IRON OXIDE; 1, 2-ETHANEDIOL; CARBON BLACK

California Prop. 65

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

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
ethanediol	No.	Yes.	No.	No.
carbon black non-respirable	Yes.	No.	No.	No.
benzophenone	Yes.	No.	No.	No.
cadmium oxide	Yes.	Yes.	No.	No.
lead monoxide	Yes.	No.	No.	No.

Canada

WHMIS (Canada) : Class D-2A: Material causing other toxic effects (Very toxic).

Canadian lists

Canadian NPRI : The following components are listed: Ethylene glycol; Zinc (and its compounds)

CEPA Toxic substances : None of the components are listed.

Canada inventory : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

RoofKeeper / RoofSkin Elastomeric Roof Coating (Black, Brown, Grey, Green)

International lists	:	Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Korea inventory: Not determined. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan Chemical Substances Inventory (TCSI): Not determined. Turkey inventory: Not determined.
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

16. Other information

Label requirements : **MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. BIRTH DEFECT HAZARD - CAN CAUSE BIRTH DEFECTS. DEVELOPMENTAL HAZARD - CAN CAUSE ADVERSE DEVELOPMENTAL EFFECTS.**

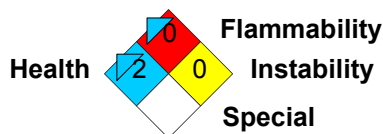
**Hazardous Material
Information System (U.S.A.)** :

Health	*	2
Flammability		0
Physical hazards		0
Personal protective equipment		B

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection
Association (U.S.A.)** :



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of issue : 4/25/2016

Date of previous issue : 5/9/2013

Version : 4

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.