

SAFETY DATA SHEET

Onyx-R1

RESPONSIBLE CARE

Section 1. Identification

GHS product identifier

: Onyx-R1

Material uses

: Asphalt Pavement Sealer

Supplier's details

: Ingevity Corporation

5255 Virginia Avenue North Charleston South Carolina USA

29406-3615

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Tel: +1 843 740 2300, +1 800 458 4034

(0800 - 1700 EST)



: +1 800 424 9300 (USA) CHEMTREC

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

GHS label elements

Hazard pictograms





Signal word

l word : Danger

Hazard statements

: Causes serious eye irritation.

May cause cancer.

Causes damage to organs through prolonged or repeated exposure. (lungs, respiratory

tract)

Precautionary statements

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

: IF exposed or concerned: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise

classified

: None known.



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Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Amorphous silica Alumina	≥10 - ≤30 ≥10 - ≤30 ≤10 ≤5	8052-42-4 1318-74-7 Proprietary Proprietary
diiron trioxide Crystalline silica calcium oxide Titania	≤5 ≤3 <3 ≤1	1309-37-1 Proprietary 1305-78-8 Proprietary

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

Validated on 12/11/2020.

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Section 4. First aid measures

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : No specific data. **Skin contact** : No specific data. Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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.



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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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).

Methods and materials for containment and 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

Advice on general occupational hygiene

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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.



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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Asphalt	NIOSH REL (United States, 10/2016).
•	CEIL: 5 mg/m³ 15 minutes. Form: Fume
	ACGIH TLV (United States, 3/2019).
	TWA: 0.5 mg/m³, (as benzene soluble
	aerosol) 8 hours. Form: Inhalable fraction
kaolinite	ACGIH TLV (United States).
	Particulates not otherwise defined.: 3 mg/m³ Form: Inhalable
	Particulates not otherwise defined.: 10 mg/
	m³ Form: Respirable
Amorphous silica	NIOSH REL (United States, 10/2016).
Amorphous sinca	TWA: 6 mg/m ³ 10 hours.
Alumina	OSHA PEL 1989 (United States, 3/1989).
Alumina	TWA: 10 mg/m ³ 8 hours. Form: Dust
	TWA: 10 flig/fil 6 flours: Form: Dust TWA: 5 mg/m³ 8 hours: Form: Respirable
	fraction
	NIOSH REL (United States, 10/2016).
	TWA: 5 mg/m³, (as Al) 10 hours. Form:
	PYRO POWDERS AND WELDING FUMES
	ACGIH TLV (United States, 3/2018).
	TWA: 1 mg/m³ 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m³ 8 hours. Form: Total dust
diiron trioxide	OSHA PEL (United States, 5/2018).
dillon trioxide	TWA: 10 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2016).
	TWA: 5 mg/m³, (as Fe) 10 hours. Form: Dust
	and fumes
	ACGIH TLV (United States, 3/2019).
	TWA: 5 mg/m³ 8 hours. Form: Respirable
	fraction
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 5 mg/m³ 8 hours. Form: Respirable
	fraction
	TWA: 10 mg/m³ 8 hours. Form: Total dust
	STEL: 10 ppm, (as Fe) 15 minutes. Form:
	Total particulates
Crystalline silica	OSHA PEL Z3 (United States, 6/2016).
Orystanii le sinoa	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form
	Respirable
	TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form:
	Respirable
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 0.1 mg/m³, (as quartz) 8 hours. Form:
	Respirable dust
	OSHA PEL (United States, 5/2018).
	Outh The (officed otates, orzo 10).

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Section 8. Exposure controls/personal protection

TWA: 50 µg/m³ 8 hours. Form: Respirable

dus

ACGIH TLV (United States, 3/2018).

TWA: 0.025 mg/m³ 8 hours. Form:

Respirable fraction

ACGIH TLV (United States, 3/2012).

TWA: 0.025 mg/m³ 8 hours. Form:

Respirable fraction

NIOSH REL (United States, 10/2016).

TWA: 0.05 mg/m³ 10 hours. Form: respirable

dust

calcium oxide ACGIH TLV (United States, 3/2019).

TWA: 2 mg/m³ 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 5 mg/m³ 8 hours.

NIOSH REL (United States, 10/2016).

TWA: 2 mg/m³ 10 hours.

OSHA PEL (United States, 5/2018).

TWA: 5 mg/m³ 8 hours.

OSHA PEL (United States, 5/2018).

TWA: 15 mg/m³ 8 hours. Form: Total dust **OSHA PEL 1989 (United States, 3/1989).** TWA: 10 mg/m³ 8 hours. Form: Total dust **ACGIH TLV (United States, 3/2019).**

TWA: 10 mg/m³ 8 hours.

Appropriate engineering controls

Titania

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.

Individual protection measures

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.

Eye/face protection

: 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

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Section 8. Exposure controls/personal protection

Hand protection : 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

Body protection: 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.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Black. / Brown.
Odor : Earthy / asphalt
Odor threshold : Not available.

pH : 6 to 7

Melting point : <0°C (<32°F)

Boiling point : >100°C (>212°F)

Flash point : Closed cup: >100°C (>212°F) [Pensky-Martens.]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not applicable.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.2 [@25°C]

Solubility : Easily soluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.SADT: Not available.

Viscosity : Dynamic (room temperature): 1000 to 6000 mPa·s (1000 to 6000 cP)



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Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

products

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Asphalt	LD50 Oral	Rat	>5000 mg/kg	-
kaolinite	LD50 Dermal	Rabbit	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Amorphous silica	Eyes - Mild irritant	Rabbit	-	24 hours 25 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Asphalt	-	2B	-
Amorphous silica	-	3	-
diiron trioxide	-	3	-
Crystalline silica	-	1	Known to be a human carcinogen.
Titania	-	2B	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.



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Section 11. Toxicological information

Specific target organ toxicity (single exposure)

Name	• •	Route of exposure	Target organs
calcium oxide	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Amorphous silica Alumina diiron trioxide	Category 2 Category 2 Category 2	- -	respiratory tract lungs lungs
Crystalline silica	Category 1	-	lungs

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure.



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Section 11. Toxicological information

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
kaolinite	Acute LC50 >1125000 μg/l Fresh water	Daphnia - Daphnia pulex	48 hours
Alumina	Acute EC50 114.357 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
calcium oxide	Chronic NOEC 100 mg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	46 days
Titania	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Asphalt	>6	-	high
calcium oxide	-	2.34	low
Titania	-	352	low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.



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Section 13. Disposal considerations

Disposal methods

: 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.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) PAIR: 4-Nonylphenol, branched, ethoxylated

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

Clean Water Act (CWA) 307: dimethylnitrosoamine; chloromethane; beryllium;

Cadmium (Non-pyrophoric)



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Section 15. Regulatory information

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602

Class I Substances

: Not listed

Listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

: Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

			SARA 302 1	PQ	SARA 304 F	RQ
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
dimethylnitrosoamine ethylene oxide	≤0.1 <0.1	Yes. Yes.	1000 1000	118.7 -	10 10	1.2

SARA 304 RQ : 4103439503 lbs / 1862961534.4 kg [410118642.8 gal / 1552467945.3 L]

SARA 311/312

Classification : EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Composition/information on ingredients

Name	%	Classification
Asphalt	≥10 - ≤30	EYE IRRITATION - Category 2B
		CARCINOGENICITY - Category 2
Amorphous silica	Proprietary	EYE IRRITATION - Category 2B
-		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
Alumina	Proprietary	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
diiron trioxide	≤5	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
Crystalline silica	Proprietary	CARCINOGENICITY - Category 1A
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
calcium oxide	<3	SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
Titania	Proprietary	CARCINOGENICITY - Category 2

State regulations

Massachusetts : The following components are listed: ASPHALT FUMES; ASPHALT (CUTBACK);

Amorphous silica; Alumina; ROUGE DUST; IRON OXIDE DUST; CALCIUM OXIDE;

Crystalline silica

New York: None of the components are listed.

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Section 15. Regulatory information

: The following components are listed: ASPHALT; ASPHALT (TYPICAL); Alumina; IRON **New Jersey** OXIDE; FERRIC OXIDE; CALCIUM OXIDE; LIME; Titania; Crystalline silica; KAOLIN

: The following components are listed: ASPHALT; Amorphous silica; Alumina; IRON **Pennsylvania**

OXIDE; CALCIUM OXIDE; Titania; Crystalline silica; KAOLIN

California Prop. 65

🗥 WARNING: This product can expose you to chemicals including ethanol, Cadmium and Ethylene oxide, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Crystalline silica, Titania, Beryllium, N-Nitrosodimethylamine and 1,4-Dioxane, which are known to the State of California to cause cancer, and Methyl chloride, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Crystalline silica	Yes.	No.	-	-
Titania	Yes.	No.	-	-
ethanol	Yes.	Yes.	-	-
beryllium	Yes.	No.	Yes.	-
Cadmium (Non-pyrophoric)	Yes.	Yes.	Yes.	Yes.
chloromethane	No.	Yes.	-	-
dimethylnitrosoamine	Yes.	No.	Yes.	-
1,4-dioxane	Yes.	No.	Yes.	-
ethylene oxide	Yes.	Yes.	Yes.	Yes.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia : Not determined. Canada : Not determined. China Not determined.

: Japan inventory (ENCS): Not determined. Japan

Japan inventory (ISHL): Not determined.

New Zealand : Not determined. **Philippines** : Not determined. Republic of Korea : Not determined. Taiwan : Not determined.

United States : All components are active or exempted.

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Section 16. Other information

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



Caution: HMIS® ratings (4th Edition) 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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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.

History

Date of printing : 2020-12-11. : 2020-12-11 Date of issue/Date of

revision

Date of previous issue 2019-05-15.

: 5 Version

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader



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Section 16. Other information

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.