

Conforms to Hazard Communication Standard 29 CFR 1910.1200

Section 1 - IDENTIFICATION

Product Identifier: Spectracide Pruning Seal

Other Means of Identification:

Product Code HG-69000; HG-96983

Formula Number 21-1677

Recommended Use: Pruning Seal

Recommended Restrictions: Use in accordance with label directions

Manufacturer/Importer/Supplier/Distributor Information:

Company Name Spectrum Group, Division of United Industries Corporation

Address PO Box 142642, St. Louis, MO 63114-0642

Telephone Number 1-800-917-5438

Emergency Telephone Number:

CHEMTREC (800)424-9300

Medical (866)823-2749

Section 2 - HAZARD(S) IDENTIFICATION

Classification of Substance or Mixture:

Physical Hazard(s) Flammable Aerosol - Category 1
Gases under pressure - Liquefied gas

Health Hazard(s) Skin Irritant - Category 2
Carcinogenicity - Category 1A
Toxic to Reproduction - Category 2

Environmental Hazard(s) Acute hazards to the aquatic environment - Category 3
Chronic hazards to the aquatic environment - Category 3

Label Elements:

Hazard Pictogram(s)



Signal Word

Danger

Hazard Statements:

Extremely flammable aerosol.
Contains gases under pressure; may explode if heated.
Causes skin irritation.
May cause cancer.
Suspected of damaging fertility or the unborn child.

Precautionary Statements:

Harmful to aquatic life with long lasting effects.
Keep away from heat, sparks, open flames, and hot surfaces. - No smoking. Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.
Wash hands thoroughly after handling. Wear protective gloves.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash it before reuse.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents in accordance with all local, state/provincial and federal regulations. For more information see product label.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, and face protection.

If exposed or concerned: Get medical advice/attention.

Dispose of contents in accordance with all local, state/provincial and federal regulations. For more information see product label.

Hazard(s) not Otherwise Classified (HNOC): No additional information available

Supplemental Information: None

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Synonyms	CAS Number	%
Asphalt	n/a	8052-42-4	20≤50
Benzene, methyl-	n/a	108-88-3	10≤50
Propane	n/a	74-98-6	10≤50
Butane	n/a	106-97-8	10≤50
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	n/a	14807-96-6	5≤10
Kaolin	n/a	1332-58-7	5≤10
2-Propanone	n/a	67-64-1	1≤5
Titanium oxide (TiO ₂)	n/a	13463-67-7	0.1≤1
Quartz (SiO ₂)	n/a	14808-60-7	0.1≤1

*All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

In accordance with paragraph (d) of 1910.1200, the exact percentage (concentration) has been withheld as a trade secret. Other components are below reportable levels.

Section 4 - FIRST-AID MEASURES

Inhalation: Move to fresh air.

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

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Most Important Symptoms/Effects, Acute and Delayed: No data available.
Indication of Immediate Medical Attention & Special Treatment Needed: No data available.

Section 5 - FIRE-FIGHTING MEASURES

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area. If you can do so without risk.

Suitable Extinguishing Media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special Protective Equipment and Precautions for Firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and Materials for Containment and Cleaning Up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Notification Procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin. Wash hands thoroughly after handling.

Conditions for Safe Storage, Store locked up. Pressurized container: protect from sunlight and do not
Including any Incompatibilities: expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
NFPA 30B Classification: Level 1 Aerosol

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values		Source
Asphalt - Fume.	Ceil_Time	5 mg/m3		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Asphalt - Inhalable fume. - as benzene solubles	TWA	0.5 mg/m3		US. ACGIH Threshold Limit Values (03 2018)
Benzene, methyl-	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC.	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Propane	REL	1,000 ppm	1,800mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm	1,800mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29

	TWA	1,000 ppm 1,800mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Butane	REL	800 ppm 1,900mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (03 2018)
	TWA	800 ppm 1,900mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Talc (Mg ₃ H ₂ (SiO ₃) ₄)- Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2008)
Talc (Mg ₃ H ₂ (SiO ₃) ₄)- Respirable.	REL	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Talc (Mg ₃ H ₂ (SiO ₃) ₄)- Respirable dust.	TWA	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Talc (Mg ₃ H ₂ (SiO ₃) ₄)- Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Kaolin - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2008)
Kaolin - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Kaolin - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Kaolin - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29
Kaolin - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29

Kaolin - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Kaolin - Total dust.	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Kaolin - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Kaolin - Total dust.	TWA	50 millions of particles per cubic foot of air	US OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Kaolin - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	5 mg/m3	US OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Kaolin - Total dust.	TWA	15 mg/m3	US OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
2-Propanone	STEL	1,000 ppm 2,400mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	1,000 ppm 2,400mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29
	TWA	250 ppm	US. ACGIH Threshold Limit Values (03 2015)
	TWA	750 ppm 1,800mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm	US. ACGIH Threshold Limit Values (03 2015)
	REL	250 ppm 590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Titanium oxide (TiO2)	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2008)

Titanium oxide (TiO ₂) - Total dust.	TWA	10 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29
Titanium oxide (TiO ₂) - Respirable fraction.	TWA	5 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium oxide (TiO ₂) - Total dust.	TWA	15 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Quartz (SiO ₂) - Respirable dust.	REL	0.05 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Quartz (SiO ₂) - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Quartz (SiO ₂) - Respirable fraction.	TWA	0.025 mg/m ³	US. ACGIH Threshold Limit Values (2008)
Quartz (SiO ₂) - Respirable dust.	TWA	0.1 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Quartz (SiO ₂) - Respirable dust.	TWA	0.05 mg/m ³	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
Quartz (SiO ₂) - Respirable dust.	PEL	0.05 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)

Quartz (SiO ₂) - Respirable dust.	OSHA_ACT	0.025 mg/m ³	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
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Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (03 2013)
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (03 2013)
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL (03 2015)

Appropriate Engineering Controls: No data available.

Individual Protective Measures, Such as Personal Protective Equipment:

General Information:	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin and body protection:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
General hygiene considerations:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do no smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Liquid spray aerosol
Odor:	No data available
Odor Threshold:	No data available
pH:	No data available
Melting / Freezing Point:	No data available

Initial boiling point and range:	No data available
Flashpoint:	No data available
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility(ies):	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Heat of Combustion:	19.4 kJ/g

Section 10 - STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible materials:	None known.
Hazardous decomposition products:	No data available.

Section 11 - TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhalation, Ingestion and/or skin or eye contact

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation:	No data available
Ingestion:	No data available
Skin contact:	No data available
Eye contact:	No data available

Acute Toxicity Values:

ORAL:

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Asphalt	LD50 (Rat): >5,000 mg/kg
Benzene, methyl-	LD50 (Rat): 5,580 mg/kg
Talc (Mg3H2(SiO3)4)	LD50: >5,000 mg/kg
Kaolin	LD50: 5,000 mg/kg

2-Propanone	LD50 (Rat): 5,580 mg/kg
Titanium oxide (TiO ₂)	LD50 (Rat): >5,000 mg/kg
Quartz (SiO ₂)	LD50: >5,000 mg/kg

DERMAL:

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Asphalt	LD50 (Rabbit): >2,000 mg/kg
Benzene, methyl-	LD50 (Rabbit): >5,000 mg/kg
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	LD50: >5,000 mg/kg
Kaolin	LD50: 5,000 mg/kg
2-Propanone	LD50 (Rabbit): 7,426 mg/kg
Titanium oxide (TiO ₂)	LD50: >2,000 mg/kg
Quartz (SiO ₂)	LD50: >5,000 mg/kg

INHALATION:

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Asphalt	LC 50: > 20 mg/l LC 50: > 5 mg/l LC 50 (Rat): > 94.4 mg/m ³
Benzene, methyl-	LC 50 (Rat): 28.1 mg/l LC 50: > 100 mg/l
Propane	LC 50: > 100 mg/l LC 50: > 100 mg/l
Butane	LC 50: > 100 mg/l LC 50: > 100 mg/l
Kaolin	LC 50: > 100 mg/l LC 50: > 100 mg/l
2-Propanone	LC 50 (Rat): 50.1 mg/l LC 50: > 5 mg/l
Titanium oxide (TiO ₂)	LC 50 (Rat): > 6.82 mg/l
Quartz (SiO ₂)	LD50: 5 mg/l

REPEATED DOSE TOXICITY:

Product: No data available.

Specified substance(s):

Asphalt	NOAEL (Rat(Female, Male), Inhalation, 28-50 d): 30mg/m ³ Inhalation Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Rat(Female, Male), Dermal, 28d): 200mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 28d): 2,000mg/kg Dermal Experimental result, Key study
Benzene, methyl-	LOEAL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target Organ(s): Liver, Kidney) Oral Experimental result, Key study

	NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation Experimental Result, Key study
	NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation Experimental Result, Key study
Propane	NOAEL (Rat(Female, Male), Inhalation ≥28d): 4,000ppm(m) Inhalation Experimental Result, Key study
	LOAEL (Rat(Female, Male), Inhalation ≥28d): 12,000ppm(m) Inhalation Experimental Result, Key study
Butane	LOAEL (Rat(Female, Male), Inhalation ≥28d): 12,000ppm(m) Inhalation Experimental Result, Key study
	NOAEL (Rat(Female, Male), Inhalation ≥28d): 4,000ppm(m) Inhalation Experimental Result, Key study
2-Propanone	NOEAL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental result, Key study
Titanium oxide (TiO2)	NOEAL (Rat(Male), Oral, 29d): 24,000 mg/kg Oral Experimental result, Key study
	NOAEL (Rat(Female, Male), Inhalation): 50 mg/m3 Inhalation Experimental Result, Key study

SKIN CORROSION/IRRITATION:

Product: No data available.

Specified substance(s):

Asphalt	in vivo (Rabbit): Not irritant Experimental results, Key study
Benzene, methyl-	in vivo (Rabbit): Irritating Experimental results, Key study
2-Propanone	in vivo (Rabbit): Not irritant Experimental results, Supporting study
Titanium oxide (TiO2)	in vivo (Rabbit): Not irritant Experimental results, Key study

SERIOUS EYE DAMAGE/EYE IRRITATION:

Product: No data available.

Specified substance(s):

Asphalt	Rabbit, 72 hrs: Not irritating
Benzene, methyl-	Rabbit, 24-72 hrs: Not irritating
2-Propanone	Irritating. Rabbit, 24 hrs: Minimum grade of severe eye irritant
Titanium oxide (TiO2)	Rabbit, 24-72 hrs: Not irritating

RESPIRATORY OR SKIN SENSITIZATION:

Product: No data available.

Specified substance(s):

Asphalt	Skin sensitization:, in vivo (Guinea pig): Not sensitizing
Benzene, methyl-	Skin sensitization:, in vivo (Guinea pig): Not sensitizing
2-Propanone	Skin sensitization:, in vivo (Guinea pig): Not sensitizing
Titanium oxide (TiO2)	Skin sensitization:, in vivo/in vitro(Guinea pig): Not sensitizing

CARCINOGENICITY:

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Asphalt	Overall evaluation: 2B. Possibly carcinogenic to humans.
Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$)	Overall evaluation: 3. Not classifiable as to carcinogenicity to humans.
Quartz (SiO_2)	Overall evaluation: 1. Carcinogenic to humans.

US. National Toxicology Program (NTP) Report to Carcinogens:

Quartz (SiO_2)	Known to Be Human Carcinogen
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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Quartz (SiO_2)	Cancer
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GERM CELL MUTAGENICITY

In vitro/In vivo

Product:	No data available.
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REPRODUCTIVE TOXICITY

Product:	No data available.
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Specified substance(s):

Benzene, methyl-	Suspected of damaging fertility or the unborn child.
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SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Product:	No data available.
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Specified substance(s):

Benzene, methyl-	Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.
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2-Propanone	Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.
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SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

Product:	No data available.
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Specified substance(s):

Benzene, methyl-	Category 2
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ASPIRATION HAZARD

Product:	No data available.
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Specified substance(s):

Benzene, methyl-	May be fatal if swallowed and enters airways
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OTHER EFFECTS:	No data available.
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Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish:

Product:	No data available.
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Specified substance(s):

Asphalt	LL 50 (Oncorhynchus mykiss, 96 h): > 1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
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Benzene, methyl-	LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study
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Propane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Butane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
2-Propanone	LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study
Titanium oxide (TiO ₂)	LC 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l Experimental result, Weight of Evidence study

Aquatic Invertebrates:

Product: No data available.

Specified substance(s):

Asphalt	LL 50 (Daphnia magna, 48 h): >1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Benzene, methyl-	LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study
Butane	LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
2-Propanone	LC 50 (Daphnia pulex 48 h): 8,800 mg/l Experimental result, Key study
Titanium oxide (TiO ₂)	LC 50 (Daphnia magna, 48 h): >100 mg/l Experimental result, Weight of Evidence study

Chronic hazards to the aquatic environment:

Fish:

Product: NOEC: estimated < 1 mg/l

Aquatic Invertebrates:

Product: No data available.

Specified substance(s):

Asphalt	NOAEL (Daphnia magna): ≥1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Benzene, methyl -	LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study
2-Propanone	LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study
Titanium oxide (TiO ₂)	NOAEL (Daphnia magna): 100 mg/l Experimental result, Supporting study

Toxicity to Aquatic Plants:

Product: No data available.

Persistence and degradability:

Biodegradation

Product: 60% (28d) Readily biodegradable

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential:

Bioconcentration Factor (BCF):

Product: No data available.

Specified substance(s):

Benzene, methyl-	Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment Experimental result, Key study
2-Propanone	Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental result, Not specified
Titanium oxide (TiO ₂)	Oncorhynchus mykiss, Bioconcentration Factor (BCF): 34 - 352 Aquatic sediment Experimental result, Key study

Partition Coefficient n-octanol / water (log K_{ow})

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Ashaly	No data available.
Benzene, methyl-	No data available.
Propane	No data available.
Butane	No data available.
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	No data available.
Kaolin	No data available.
2-Propanone	No data available.
Titanium oxide (TiO ₂)	No data available.
Quartz (SiO ₂)	No data available.

Other adverse effects: Harmful to aquatic life with long lasting effects.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.

Section 14 - TRANSPORTATION INFORMATION

DOT:	UN Number:	UN1950
	Proper Shipping Name:	Aerosols
	Hazard Class:	2.1
	Packing Group:	None
	Limited Quantity:	≤1L
IATA:	UN Number:	UN1950
	Proper Shipping Name:	Aerosols
	Hazard Class:	2.1
	Packing Group:	None
IMDG:	UN Number:	UN1950
	Proper Shipping Name:	Aerosols
	Hazard Class:	2.1
	Packing Group:	None

Limited Quantity: ≤1L
Marine Pollutant: No

Section 15 - REGULATORY INFORMATION

US Federal Regulations

Restrictions on use: Not known.

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<u>Chemical Identity</u>	<u>OSHA hazard(s)</u>
Quartz (SiO ₂)	lung effects immune system effects Cancer kidney effects

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable Quantity</u>
Asphalt	lbs. 100
Benzene, methyl-	lbs. 1000
Propane	lbs. 100
Butane	lbs. 100
2-Propanone	lbs. 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard
Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazards
Flammable aerosol
Skin corrosion/Irritation
Carcinogenicity
Toxic to Reproduction

SARA 302 Extremely Hazardous Substance

<u>Chemical Identity</u>	<u>Reportable quantity</u>	<u>Threshold Planning Quantity</u>
2-Propanone		

SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Asphalt	lbs. 100
Benzene, methyl-	lbs. 1000
Propane	lbs. 100
Butane	lbs. 100
2-Propanone	lbs. 5000

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Asphalt	10000 lbs
Benzene, methyl-	10000 lbs
Propane	10000 lbs
Butane	10000 lbs
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	10000 lbs
Kaolin	10000 lbs
2-Propanone	10000 lbs
Titanium oxide (TiO ₂)	10000 lbs
Quartz (SiO ₂)	10000 lbs

SARA 313 (TRI Reporting)

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Threshold Planning Quantity</u>
Benzene, methyl-	lbs	lbs

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

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including Bitumens, extracts of steam-refined and air refined, which are known to the State of California to cause cancer and Toluene, 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.

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

Chemical Identity

Asphalt
Benzene, methyl-
Propane
Butane
Talc (Mg₃H₂(SiO₃)₄)
Kaolin
2-Propanone
Quartz (SiO₂)

US. Massachusetts RTK - Substance List

Chemical Identity

Quartz (SiO₂)

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Asphalt
Benzene, methyl-
Propane
Butane

Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$)
Kaolin
2-Propanone

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

US TSCA Inventory: On or in compliance with the inventory

Disclaimer:

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Section 16 - OTHER INFORMATION

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