

Safety Data Sheet

	IES Ogo	Date of issue: 08/13/2020	Revision date: 2/13/2024	Version: 1.4
ECTION 1: Identi	fication of t	he substance/mixtur	e and of the company/undertal	king
.1. Product iden				
Product form		: Mixture		
Name		: PerformaSil®	200 Anti-Graffiti Coating	
Product code		: PA	-	
2. Relevant ider	ntified uses of	the substance or mixture	and uses advised against	
.2.1. Relevant ider	ntified uses			
Main use category		: Professional	use,Industrial use	
Industrial/Professional	use spec	: Industrial		
		For professio	nal use only	
Use of the substance/r	nixture	: Coating		
.2.2. Uses advised	l against			
lo additional information	n available			
		e safety data sheet		
CD High Performance (350 S. Union Ridge Pa tidgefield, WA 98642 Inited States of America	Irkway	mistnes		
el: +1 (360) 546 2286 ax: +1 (360) 546 2287				
.4. Emergency to	elephone num			
Country	_	tion/Company	Address	Emergency number
UNITED STATES OF AMERICA		Performance + Chemistries	7350 S. Union Ridge Parkway Ridgefield, WA 98642	: +1 (360) 546 2286
SECTION 2: Hazar	ds identific	ation		
.1. Classification	n of the substa	nce or mixture		
			Standard (29 CER 1910 1200)	
HS Classification acc	cording to OSH	A Hazard Communication		
HS Classification acc H316 Skin irritation				
H316 Skin irritation	: Cate	gory 3		
H316 Skin irritation H319 Eye Irritation	: Cate : Cate	egory 3 egory 2A		
H316 Skin irritation H319 Eye Irritation H361 Reproductive To	: Cate : Cate xicity : Cate	gory 3 gory 2A gory 2		
H316 Skin irritation H319 Eye Irritation H361 Reproductive To full text of H-phrases m	: Cate : Cate xicity : Cate entioned in this	egory 3 egory 2A		
H319 Eye Irritation H361 Reproductive To full text of H-phrases m .2. Label elemen	: Cate : Cate xicity : Cate entioned in this	gory 3 gory 2A gory 2		
H316 Skin irritation H319 Eye Irritation H361 Reproductive To full text of H-phrases m .2. Label elemen abeling according to	: Cate : Cate xicity : Cate entioned in this	gory 3 gory 2A gory 2 Section: see Section 16		
H316 Skin irritation H319 Eye Irritation H361 Reproductive To full text of H-phrases m .2. Label elemen abeling according to Hazard pictograms	: Cate : Cate xicity : Cate entioned in this	agory 3 agory 2A agory 2 Section: see Section 16 Communication Standard	(29 CFR 1910.1200)	
H316 Skin irritation H319 Eye Irritation H361 Reproductive To full text of H-phrases m .2. Label elemen abeling according to Hazard pictograms Signal word	: Cate : Cate xicity : Cate entioned in this	agory 3 agory 2A section: see Section 16 Communication Standard : : : : : : : : : : : : : : : : : : :	(29 CFR 1910.1200)	
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H316 Skin irritation H319 Eye Irritation H361 Reproductive To ull text of H-phrases m .2. Label elemen abeling according to Hazard pictograms Signal word Hazard statements	: Cate : Cate xicity : Cate entioned in this nts OSHA Hazard	agory 3 agory 2A agory 2 Section: see Section 16 Communication Standard : : : : : : : : : : : : : : : : : : :	(29 CFR 1910.1200)	
H316 Skin irritation H319 Eye Irritation H361 Reproductive To ull text of H-phrases m .2. Label elemen abeling according to Hazard pictograms Signal word Hazard statements	: Cate : Cate xicity : Cate entioned in this nts OSHA Hazard	egory 3 egory 2A egory 2 Section: see Section 16 Communication Standard : : Warning : Causes mild Causes serio Suspected of : Prevention: Wash skin ar	(29 CFR 1910.1200) to a sequence of the seque	
H316 Skin irritation H319 Eye Irritation H361 Reproductive To full text of H-phrases m .2. Label elemen abeling according to Hazard pictograms Signal word Hazard statements	: Cate : Cate xicity : Cate entioned in this nts OSHA Hazard	egory 3 egory 2A egory 2 Section: see Section 16 Communication Standard : : : : : : : : : : : : : : : : : : :	(29 CFR 1910.1200) kin irritation us eye irritation damaging fertility or the unborn child ad face thoroughly after handling.	
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H316 Skin irritation H319 Eye Irritation H361 Reproductive To full text of H-phrases m 2. Label element abeling according to Hazard pictograms Signal word	: Cate : Cate xicity : Cate entioned in this nts OSHA Hazard	agory 3 agory 2A section: see Section 16 Communication Standard : : : : : : : : : : : : : : : : : : :	(29 CFR 1910.1200) kin irritation us eye irritation damaging fertility or the unborn child ad face thoroughly after handling. we gloves and eye protection.	ead and understood.
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Remove contact lenses, if present, and easy to do. Continue rinsing.

If skin irritation occurs: Get medical attention.

If eye irritation persists: Get medical attention.

If exposed or concerned: get medical advice.

Store locked up.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Hazardous ingredients:

Name	CAS No.	Concentration (Wt %)
Water	7732-18-5	40 - 50%
Organomodified polydimethylsiloxane	Trade secret	30 - 40%
Silicon dioxide	7631-86-9	5 - 10%
Diethylamine	109-89-7	0.25 - 1%
2-Amino-2-methyl-1-propanol	124-68-5	0.25 - 1%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1 %
Titanium dioxide	13463-67-7	0 - 5 %
Carbon black	1333-86-4	0 - 5 %
Cobalt aluminate blue spinel	1345-16-0*	0 - 5 %
Cobalt titanate green spinel	68186-85-6*	0 - 5 %
Antimony nickel titanium oxide yellow	8007-18-9*	0 - 5 %
Rutile tin zinc	85536-73-8*	0 - 5 %
Niobium sulfur tin zinc oxide	1374645-21-2*	0 - 5 %
Iron oxide red	1309-37-1	0 - 5 %
Yellow iron hydroxide oxide	20344-49-4	0 - 5 %

Composition Comments : This product is the result of high temperature calcination of the component substances. Due to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides.

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	 Never give anything by mouth to an unconscious person. In case of accident or if you feel unwell, seek medical advice (show the label where possible). When symptoms persist or in all cases of doubt seek medical advice.
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest. Get medical attention
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and eff	fects, both acute and delayed
Symptoms/injuries	: No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



SECTION 5: Firefighting measure	es a la companya de l
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards during firefighting	: Exposure to combustion products may be a hazard to health.
Hazardous combustion products	: Carbon oxides. Silicon oxides. Formaldehyde.
5.3. Advice for firefighters	
Firefighting instructions	 Use extinguishing methods 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.
Protection during firefighting	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

6.2. 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.

6.3. Methods and material for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. 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. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean-up of releases. You will need to determine which regulations are applicable.

6.4. Reference to other sections

Sections 13 and 15 of this SDS provide information regarding certain local or national requirments.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Local/Total ventilation	: Use only with adequate ventilation.
Precautions for safe handling	: Avoid inhalation of vapor or mist. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash Skin thoroughly after handling.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Keep in properly labeled containers. Store in accordance with the particular national regulations.
Incompatible materials	: Strong oxidizing agents, strong acids
7.3. Specific end use(s)	
No additional information available	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with workplace control parameters:

Ingredients	CAS-No.	Type (Form of exposure)	Value	Basis
Silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica) 80 mg/m ³ / %SiO ₂ (Silica)	OSHA
		TWA	6 mg/m ³ (Silica)	NIOSH



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Diethylamine	109-89-7	TWA STEL	5 ppm 15 ppm	ACGIH ACGIH
		TWA	25 ppm 75 mg/m³	OSHA Z-1
		TWA	10 ppm 30 mg/m ³	NIOSH REL
		ST	25 ppm 75 mg/m³	NIOSH REL
		C	5 ppm 15 mg/m³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Tin and compounds		PEL TWA TWA	2 mg/m3 2 mg/m3 2 mg/m3	OSHA ACGIH NIOSH
Iron oxide red	1309-37-1	TWA STEL	5 mg/m3 10 mg/m3	WEL
Titanium dioxide	13463-67-7	PEL TWA	15 mg/m3 10 mg/m3	OSHA ACGIH
Cobalt metal, dust and fumes		PEL TWA TWA	0.1 mg/m3 0.02 mg/m3 0.05 mg/m3	OSHA ACGIH NIOSH
Nickel, metal and insoluble compounds		PEL	1 mg/m3	OSHA
		TWA TWA	1.5 mg/m3 0.015 mg/m3	ACGIH NIOSH
Antimony nickel titanium oxide yellow	8007-18-9	TWA	3 mg/m3	ACGIH
Carbon black	1333-86-4	TWA TWA TWA	3.5 mg/m3 3 mg/m3 3.5 mg/m3	OSHA ACGIH NIOSH
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	US WEEL

8.2. Exposure controls

Appropriate engineering controls	: Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workspace exposure concentrations.
Personal protective equipment	: Protective clothing. Protective goggles or safety glasses. Gloves.
Hand protection	: Permeation-resistant gloves, Butyl rubber gloves, Nitrile rubber gloves, Neoprene gloves.
Eye protection	: Chemical safety goggles or safety glasses with side shields., Chemical safety goggles in combination with a full face shield if a splash hazard exists.
Skin and body protection	: Permeation-resistant clothing, Gloves, long-sleeved shirts, and pants.
Respiratory protection	: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process.
	For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: NIOSH approved respirator with organic vapor cartridge and a particulate pre-filter.
Other information	: Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Store separate from food products.



SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Colour	: Various
Odour	: Amine, mild
Odour threshold	: No data available
рН	: 11 - 12
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: 0 °C
Boiling point	: 100 °C
Flash point	: > 101.1 °C Method: closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non-flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.02 g/cm ³
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 20000 cSt
Explosive properties	: Not explosive
Oxidising properties	: This mixture is not classified as oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	ty
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10.1. Reactivity

Not classified as a reactivity hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. 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.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Oxidizing agents, strong acids

10.6. Hazardous decomposition products

Carbon oxides. Silicon oxides. Formaldehyde.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure

: Inhalation. Skin contact. Ingestion. Eye contact.



Acute toxicity	: Not classified based on available data.
	Acute oral toxicity estimate: >5000 mg/kg
	Method: calculation method
	Acute dermal toxicity estimate: >5000 mg/kg
	Method: calculation method
	Acute inhalation toxicity estimate: >5000 mg/kg
	Method: calculation method
ngredient	Remarks
Organomodified polydimethylsiloxane	No data available
Silicon dioxide	No data available
Diethylamine	LD50 Oral - Rat - male - 100 mg/kg (OECD Test Guideline 401)
	Acute toxicity estimate Oral - 100 mg/kg (Calculation method) LC50 Inhalation - Rat - female - 4 h - 17,11 mg/l – vapor (OECD Test Guideline 403)
	Acute toxicity estimate Inhalation - 17,11 mg/l – vapor (Calculation method)
	LD50 Dermal - Rabbit - male - 582 mg/kg Remarks: (IUCLID) (ECHA)
	Acute toxicity estimate Dermal - 582 mg/kg (Calculation method)
P-Amino-2-methyl-1-propanol	LD50 Oral - Rat - male - 2.900 mg/kg (2-Amino-2-methyl-1-propanol) (OECD Test
	Guideline 401)
	Inhalation: No data available LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (2-Amino-2-methyl-1-propanol
	(OECD Test Guideline 402)
Dctamethylcyclotetrasiloxane	LD50, Rat, male, >4 800 mg/kg No deaths occurred at this concentration.
Fitanium dioxide	LD50 Oral - Rat - > 10.000 mg/kg
	Inhalation: No data available
Carbon black	LD50 Dermal - Rabbit - > 10.000 mg/kg LD50 Oral - Rat - male and female - > 8.000 mg/kg
	Inhalation: No data available
	LD50 Dermal - Rabbit - > 3.000 mg/kg
Cobalt aluminate blue spinel	No data available
Cobalt titanate green spinel	No data available
Antimony nickel titanium oxide yellow Rutile tin zinc	No data available No data available
Niobium sulfur tin zinc oxide	No data available
ron oxide red	No data available
Yellow iron hydroxide oxide	No data available
Skin corrosion/irritation	: May cause mild skin irritation
ngredient	Remarks
Organomodified polydimethylsiloxane	No data available
Silicon dioxide	No data available
Diethylamine	Skin - Rabbit Reputte Causes source huma (OECD Test Cuideling 404)
	Result: Causes severe burns. (OECD Test Guideline 404) Remarks: (Regulation (EC) No 1272/2008, Annex VI)
2-Amino-2-methyl-1-propanol	Brief contact may cause severe skin irritation with pain and local redness.
	Prolonged contact may cause severe skin burns. Symptoms may include pain, severe
	local redness, swelling, and tissue damage.
	Not classified as corrosive to the skin according to EC guidelines.
Octamethylcyclotetrasiloxane	Brief contact is essentially nonirritating to skin. Skin - Rabbit
	Result: No skin irritation
Carbon black	Skin - Rabbit
	Result: No skin irritation - 24 h
Cobalt aluminate blue spinel	No data available
Cobalt titanate green spinel	No data available
Antimony nickel titanium oxide yellow Rutile tin zinc	No data available No data available
Niobium sulfur tin zinc oxide	No data available
Iron oxide red	No data available

No data available

No data available

Iron oxide red

Yellow iron hydroxide oxide



Serious eye damage/eye irritation	: May cause serious eye irritation.
Ingredient Organomodified polydimethylsiloxane	Remarks No data available
Silicon dioxide	No data available
Diethylamine	
Dietriylamine	Eyes - Rabbit Regulation (EC) No. 440/2008, Appex, R.5)
2-Amino-2-methyl-1-propanol	Result: Causes burns 7 Days (Regulation (EC) No. 440/2008, Annex, B.5) May cause severe irritation with corneal injury which may result in permanent impairment of
2-Amino-2-metryi-1-propanoi	vision, even blindness. Chemical burns may occur.
Octamethylcyclotetrasiloxane	Essentially nonirritating to eyes.
Titanium dioxide	Eyes - Rabbit
	Result: No eye irritation
Carbon black	Eves - Rabbit
Carbon black	Result: No eve irritation
Cobalt aluminate blue spinel	No data available
Cobalt titanate green spinel	No data available
Antimony nickel titanium oxide yellow	No data available
Rutile tin zinc	No data available
Niobium sulfur tin zinc oxide	No data available
Iron oxide red	No data available
Yellow iron hydroxide oxide	No data available
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	. Net allocations have all on every links information
Skin sensitization	: Not classified based on available information.
Respiratory sensitization	: Not classified based on available information.
Germ cell mutagenicity	: Not classified based on available information.
• •	: Not classified based on available information.
Carcinogenicity	
Ingredient Organomodified polydimethylsiloxane	Remarks No data available
Silicon dioxide	No data available
Diethylamine	
Dietriyiariirie	Species: Rat
	Exposure time: 104 weeks
	Application Route: Inhalation
	Result: negative
2-Amino-2-methyl-1-propanol	No relevant data found Results from a 2 year repeated vapour inhalation exposure study to rats of
Octamethylcyclotetrasiloxane	octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus
	of female animals. This finding occurred at the highest exposure dose (700 ppm) only.
	Studies to date have not demonstrated if these effects occur through pathways that are
	relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin
	accumulation in the liver. Without knowledge of the specific mechanism leading to the
	protoporphyrin accumulation the relevance of this finding to humans is unknown.
Titanium dioxide	Suspected of causing cancer. IARC has classified TIO2 as 2B Possibly carcinogenic to
	humans. However, the only evidence of carcinogenicity is in rats exposed to very high
	concentrations.
	concentrations. Two major epidemiology studies among titanium dioxide workers in the US and in EUROPE could not demonstrate an elevated lung cancer risk.
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Carbon black Cobalt aluminate blue spinel Cobalt titanate green spinel Antimony nickel titanium oxide yellow	 Two major epidemiology studies among titanium dioxide workers in the US and in EUROPE could not demonstrate an elevated lung cancer risk. Boffetta et. al. Mortality among workers employed in the titanium dioxide production industry in Europe. Cancer Causes Control. 2004 Sep;15(7):697-706. Fryzek et. al. A cohort mortality study among titanium dioxide manufacturing workers in the United States. Occup Environ Med. 2003 Apr;45(4):400-9. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. IARC Monographs, Volume 93 (Summary) IARC monographs report that certain carbon blacks have been found to be carcinogenic to animals in laboratory experiments. IARC has classified cobalt and cobalt compounds as possibly carcinogenic to humans. This product is the result of high temperature calcination of the component substances. Dut to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides IARC has classified cobalt and cobalt compounds as possibly carcinogenic to humans. This product is the result of high temperature calcination of the component substances. Dut to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides



Niobium sulfur tin zinc oxide Iron oxide red Yellow iron hydroxide oxide

N	lo da	ta av	ailable	
N	lo da	ta av	ailable	
N	lo da	ta av	ailable	

Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Ingredient	Remarks
Organomodified polydimethylsiloxane	No data available
Silicon dioxide	No data available
Diethylamine	No data available
2-Amino-2-methyl-1-propanol	In animal studies, did not interfere with reproduction.
Octamethylcyclotetrasiloxane	In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. In animal studies, has been shown to interfere with fertility.
Titanium dioxide	No data available
Carbon black	No data available
Cobalt aluminate blue spinel	No data available
Cobalt titanate green spinel	No data available
Antimony nickel titanium oxide yellow	No data available
Rutile tin zinc	No data available
Niobium sulfur tin zinc oxide	No data available
Iron oxide red	No data available
Yellow iron hydroxide oxide	No data available
Specific target organ toxicity (single exposure)	: Not classified based on available data.
Specific target organ toxicity (repeated exposure)	: Not classified based on available data.
Repeated dose toxicity	: Not classified based on available data.
Aspiration hazard	: Not classified based on available data.
Potential adverse human health effects and symptoms	: Not classified based on available data.
Further Information	: No chronic effects are known from repeated exposure to iron oxide pigment. Prolonged inhalation (6 to 10 years) of iron oxide fumes has been reported to produce changes in lung x- rays of exposed individuals. This condition, siderosis, is considered to be benign pneumoconiosis that exhibits no adverse health effects. Siderosis has been observed among occupations such as arc welders where iron oxide fumes are present. To the bes of our knowledge, this condition has not been observed after prolonged exposure to iron oxide pigment. There are no iron oxide fumes contained in this product and none should be generated under normal use.

12.1. Toxicity

Organomodified polydimethylsiloxan	e:
No data available	

Silicon dioxide: No data available Diethylamine: LC50 - Oryzias latipes (Japanese medaka): 27 mg/l Toxicity to fish Exposure time: 96 h Toxicity to daphnia and other aquatic EC50 - Ceriodaphnia dubia (water flea): 4.6 mg/l invertebrates Exposure time: 48 h EC50 - Pseudokirchneriella subcapitata (green algae): 54 mg/l Exposure time: 72 h Toxicity to algae Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) NOEC - Daphnia magna (water flea): 4.2 mg/l Exposure time: 21 d 2-Amino-2-methyl-1-propanol:

Toxicity to fish

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).



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o Toxicity to daphnia and other aquatic invertebrates Toxicity to algae Toxicity to bacteria	May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms. LC50 - Lepomis macrochirus (Bluegill sunfish): 190 mg/l Exposure time: 96 h EC50 - Daphnia magna (Water flea): 193 mg/l Exposure time: 48 h EC50 - Desmodesmus subspicatus (green algae): 402 mg/l Exposure time: 72 h EC50 (activated sludge): 342.9 mg/l Exposure time: 3 h
Octamethylcyclotetrasiloxane: Toxicity to fish	The estimated maximum aqueous concentration of Octamethylcyclotetrasiloxane (D4) from
Toxicity to daphnia and other aquatic invertebrates Toxicity to algae Toxicity to fish (Chronic toxicity)	migration to water from the product as supplied is below the D4 established no-effect threshold (< 0.0079 mg/L) for aquatic organisms. LC50 - Oncorhynchus mykiss (rainbow trout): 0.022 mg/l Exposure time: 96 h EC50 - Daphnia magna (Water flea): 0.015 mg/l Exposure time: 48 h EC50 - Pseudokirchneriella subcapitata (green algae): 0.022 mg/l Exposure time: 72 h NOEC - Oncorhynchus mykiss (rainbow trout): 0.0044 mg/l Exposure time: 93 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC - Daphnia magna (water flea): 0.0079 mg/l Exposure time: 21 d
Titanium dioxide:	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow): >1.0 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea): > 1.000 mg/l Exposure time: 48 h
Carbon black:	
Toxicity to fish Toxicity to algae	LC50 - Danio rerio (zebra fish): >1.000 mg/l - 96 h (OECD Test Guideline 203) Remarks: (above the solubility limit in the test medium) ErC50 - Desmodesmus subspicatus (green algae): >10.000 mg/l - 72 h (OECD Test Guideline 201)
Cobalt aluminate blue spinel: No data available	
Cobalt titanate green spinel: No data available	
Antimony nickel titanium oxide yellow: No data available	
Rutile tin zinc: No data available	
Niobium sulfur tin zinc oxide: No data available	
Iron oxide red: No data available	
Yellow iron hydroxide oxide: No data available	
12.2. Persistence and degradability Organomodified polydimethylsiloxane:	
No data available	

Silicon dioxide:



The methods for determining biodegradability are not applicable to inorganic substances

Diethylamine:	
Biodegradability	aerobic - Exposure time 28 d
	Result: 68 - 70 % - Readily biodegradable.
Theoretical oxygen demand	(OECD Test Guideline 301C) 3.620 mg/g
medical oxygen demand	Remarks: (IUCLID)
	Remarks. (IOCLID)
2-Amino-2-methyl-1-propanol:	
Biodegradability	aerobic - Exposure time 28 d
5 ,	Result: 89.3 % - Readily biodegradable.
	(OECD Test Guideline 301F)
Octamethylcyclotetrasiloxane:	
Biodegradability	aerobic - Exposure time 29 d
	Result: 3.7 % - Not readily biodegradable.
	(OECD Test Guideline 310)
Titanium dioxide:	
The methods for determining biodegradabilit	v are not applicable to inorganic substances
<u> </u>	
Carbon black:	
No data available	
Cobalt aluminate blue spinel:	
The methods for determining biodegradabilit	y are not applicable to inorganic substances
Cobalt titanate green spinel:	
The methods for determining biodegradabilit	y are not applicable to inorganic substances
Antimony nickel titanium oxide yellow:	u are nat applicable to inerganic substances
The methods for determining biodegradabilit	y are not applicable to morganic substances
Rutile tin zinc:	
The methods for determining biodegradabilit	v are not applicable to inorganic substances
The methods for determining biodegradabilit	y are not applicable to morganic substances
Niobium sulfur tin zinc oxide:	
The methods for determining biodegradabilit	v are not applicable to inorganic substances
<u> </u>	
Iron oxide red:	
The methods for determining biodegradabilit	y are not applicable to inorganic substances
Yellow iron hydroxide oxide:	
The methods for determining biodegradabilit	y are not applicable to inorganic substances
12.3. Bioaccumulative potential	
Organomodified polydimethylsiloxane: No data available	
Silicon dioxide:	
No data available	
Diethylamine:	
Partition coefficient: n-octanol/water (Log	0.58
Pow)	
2-Amino-2-methyl-1-propanol:	
Bioaccumulation	Bioconcentration potential is low (BCF < 100 or Log Pow < 3).



+ CHEMISTRIES	
Partition coefficient: n-octanol/water (log	-0.63 OECD Test Guideline 107 or Equivalent
Pow) Bioconcentration factor (BCF)	< 1 Fish
Octamethylcyclotetrasiloxane:	
Bioaccumulation	Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7). Pimephales promelas (fathead minnow) – 0.160 μg/l
Partition coefficient: n-octanol/water (log Pow)	6.49
Bioconcentration factor (BCF)	12.400 (US-EPA)
Titanium dioxide: No data available	
Carbon black:	
No data available	
Cobalt aluminate blue spinel: No data available	
Cobalt titanate green spinel: No data available	
Antimony nickel titanium oxide yellow: No data available	
Rutile tin zinc: No data available	
Niobium sulfur tin zinc oxide:	
No data available	
Iron oxide red:	
No data available	
Yellow iron hydroxide oxide: No data available	
12.4. Mobility in soil	
Organomodified polydimethylsiloxane: No data available	
Silicon dioxide: No data available	
Diethylamine:	
No data available	
2-Amino-2-methyl-1-propanol: Partition coefficient (Koc):	18 Estimated.
Octamethylcyclotetrasiloxane:	
Partition coefficient (Koc):	16596 OECD Test Guideline 106
Titanium dioxide:	
No data available	
Carbon black:	



Cobalt aluminate blue spinel:

No data available

 No data available

 Cobalt titanate green spinel:

 No data available

 Antimony nickel titanium oxide yellow:

 No data available

 Rutile tin zinc:

 No data available

 No data available

 Niobium sulfur tin zinc oxide:

 No data available

 Iron oxide red:

 No data available

Yellow iron hydroxide oxide:

No data available

12.5. Results of PBT and vPvB assessment

Organomodified polydimethylsiloxane:

No data available

Silicon dioxide:

No data available

Diethylamine:

Not considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

2-Amino-2-methyl-1-propanol:

This substance is readily biodegradable and thus is not considered persistent or very persistent (P or vP). This substance has a low potential to bioaccumulate due to low affinity for octanol and high water solubility so is not considered bioaccumulative or very bioaccumulative (B or vB). This substance is not classified as mutagenic, carcinogenic or reproductive toxicant to mammalian species, and the values are much higher than the threshold for toxicity to aquatic species; thus is not considered toxic (T).

Octamethylcyclotetrasiloxane:

Octamethylcyclotetrasiloxane (D4) meets the current criteria for PBT and vPvB under REACh Annex XIII or other regionally specific criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

This substance is considered to be persistent, bioaccumulating and toxic (PBT).

Titanium dioxide:

Not considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Carbon black:

Not considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Cobalt aluminate blue spinel:

No data available

Cobalt titanate green spinel:

No data available



Antimony nickel titanium oxide yellow:	
No data available	
Rutile tin zinc:	
No data available	
Niobium sulfur tin zinc oxide:	
No data available	
luon ovido rodu	
Iron oxide red: No data available	
Yellow iron hydroxide oxide: No data available	
12.C Other advance offerste	
12.6. Other adverse effects No additional information available	
SECTION 13: Disposal considerat	tions
13.1. Waste treatment methods	. This product has been evoluated for PCPA sharestaristics and does not react the
Resource Conservation and Recovery Act (RCRA)	: This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.
Waste from residues	: Dispose of in accordance with local regulations.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or
	disposal. If not otherwise encoified: Dispose of as unused product
	If not otherwise specified: Dispose of as unused product.
SECTION 14: Transport information	on
In accordance with ADR / RID / IMDG / IATA	A / ADN
14.1. UN number	
Not dangerous goods in terms of transport re-	egulations
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDC	
IMDG Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable

RID



8			
Transport hazard class(es) (RID)	: Not appli	cable	
14.4. Packing group			
Packing group (ADR)	: Not appli	cable	
Packing group (IMDG)	: Not appli	cable	
Packing group (IATA)	: Not appli	cable	
Packing group (ADN)	: Not appli	cable	
Packing group (RID)	: Not appli	cable	
14.5. Domestic regulation			
49 CFR			
Not dangerous according to transport re	egulations		
14.6. Special precautions for use	r		
14.6.1. Overland transport			
14.6.2. Transport by sea			
14.6.3. Air transport			
14.6.4. Inland waterway transport			
Carriage prohibited (ADN)	: No		
Not subject to ADN	: No		
14.6.5. Rail transport			
Carriage prohibited (RID)	: No		
		DOI 72/79 and the IBC Code	
Not applicable	to Annex II of MAP	RPOL 73/78 and the IBC Code	
SECTION 15: Regulatory infor	mation		
		egislation specific for the sub	stance or mixture
EPCRA – Emergency Planning and C	_		
CERCLA Reportable Quantity	•		
Ingredients	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
Diethylamine	109-89-7	100	27777
SARA 304 Extremely Hazardous Sub	stances Reportable	Quantity	
This material does not contain any com	-	-	
SARA 311/312 Hazards	: Chroni	c Health Hazard	
SARA 302	 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. 		
SARA 313	REPO SUPE PART COPIE 100% 100%	RTING REQUIREMENTS OF S RFUND AMENDMENTS AND R	IICAL OR CHEMICALS SUBJECT TO THE ECTION 313 OF TITLE III OF THE EAUTHORIZATION ACT OF 1986 AND 40 CFR ST BE INCLUDED IN ALL MSDS THAT ARE IIS MATERIAL.
15.1.2. National regulations			

Ingredient	CAS No.
Water	7732-18-5
Organomodified polydimethylsiloxane	Trade secret



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Silicon dioxide	7631-86-9
Diethylamine	109-89-7
2-Amino-2-methyl-1-propanol	124-68-5
Octamethylcyclotetrasiloxane	556-67-2
Titanium dioxide	13463-67-7
Carbon black	1333-86-4
Cobalt aluminate blue spinel	1345-16-0*
Cobalt titanate green spinel	68186-85-6*
Antimony nickel titanium oxide yellow	8007-18-9*
Rutile tin zinc	85536-73-8*
Niobium sulfur tin zinc oxide	1374645-21-2*
Iron oxide red	1309-37-1
Yellow iron hydroxide oxide	20344-49-4

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The ingredients of this product are reported in the following inventories:		
REACH	: All ingredients (pre)registered or exempt.	
TSCA	: All chemical substances in this material are included on or exempted fro listing on the TSCA Inventory of Chemical Substances.	
DSL	: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or are exempt from listing on the Canadian Domestic Substances List (DSL).	

15.2. Chemical safety assessment

SECTION 16: Other information

No chemical safety assessment has been carried out

Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Internal technical data, data from raw material SDS's, and OECD eChem Portal search results.
Other information	: None.
Full text of H- phrases:	
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child

SDS US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.