

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier Product Name

Pristiva Power UVA

Other Means of Identification Product code Product type

None assigned Mixture

Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against

Details of the supplier of the safety data sheet Supplier UV filters for photo-Reduction of Chlorine. Anything other than the above.

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24 HR EMERGENCY TELEPHONE NUMBERS: Poison Control Centre (Medical): (877)800-5553 CANUTEC (Canadian Transportation): (613)996-6666 CHEMTREC (US Transportation) (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

Physical hazards Health hazards Environmental hazards	Not classified as hazardous for supply/use. Not classified as hazardous for supply/use. Hazardous to the aquatic environment, Chronic, Category 3
Hazard Pictogram(s)	None assigned
Signal Word(s)	None assigned
Hazard Statement(s)	Harmful to aquatic life with long lasting effects.
Precautionary Statement(s)	Avoid release to the environment.
	Dispose of contents in accordance with local, state or national legislation.
Other hazards	None known
Percent of the mixture consists of ingredient(s) of	0% of the mixture consists of ingredients of unknown acute inhalated toxicity.
unknown acute toxicity:	0% of the mixture consists of ingredients of unknown acute oral toxicity.
-	0% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable



3.2 Mixtures Substances in preparations / mixtures

OSHA HCS (29 CFR 1910.1200)

Chemical identity of the substance	Common names, trade names, synonyms, etc.	%W/W	CAS No.	EC No.	Hazard classification
Sodium chlorite	Chlorous acid, sodium salt	<u>></u> 0.25 - <1	7758-19-2	231-836-6	Oxidising liquid, Category 1 Acute toxicity, Category 3, Oral Acute toxicity, Category 2, Dermal Skin corrosion/irritation, Category 1 Specific target organ toxicity — repeated exposure, Category 2 Hazardous to the aquatic environment, Chronic, Category 1 (M-factor = 1)

SECTION 4: FIRST AID MEASURES



Description of first aid measures	
Self-protection of the first aider	No action should be taken involving personal risk. Use personal protective equipment as required. Ensure adequate ventilation. Avoid breathing vapours. Avoid contact with skin and eyes. Avoid contact with heated or molten product.
Inhalation	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	IF ON SKIN: Gently wash with plenty of soap and water. If irritation develops and persists, get medical attention.
Eye Contact	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/attention.
Ingestion	IF SWALLOWED: Rinse mouth. Give plenty of water to drink.
Most important symptoms and effects, both acute and delayed	None Known
Indication of any immediate medical attention and special treatment needed	Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	
Suitable Extinguishing Media	As appropriate for surrounding fire. Water spray, foam, dry powder or CO2.
Unsuitable extinguishing Media	Do not use water jet. Direct water jet may spread the fire.
Special hazards arising from the substance or	Not flammable. None known.
mixture	
Advice for fire-fighters	Portable containers should be moved if possible and without risk. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. and Chemical protection suit. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures Caution - spillages may be slippery. No action should be taken involving personal risk. No action should be taken involving personal risk. Wear suitable protective clothing. Ensure adequate ventilation. Avoid breathing vapours. Avoid contact with skin and eyes. Methods and material for containment and cleaning up Small spillages: Allow small spillages to evaporate provided there is adequate ventilation.



Large spillages: Shut off leaks if without risk. Absorb spillage in suitable inert material. Sweep up and shovel into waste drums or plastic bags. Ventilate the area and wash spill site after material pick-up is complete. Flush spill area with copious amounts of water.

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage, including any incompatibilities Storage temperature Incompatible materials Wear suitable protective clothing. Ensure adequate ventilation. Avoid breathing vapours. Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash clothing before reuse.

Keep only in original packaging. Keep in a cool, well ventilated place. Store in a dry place. Keep away from heat and direct sunlight.

Store at room temperature. Do not allow material to freeze.

Keep away from oxidising substances. Avoid contact with acids and alkalis. Keep away from: Wood, Rubber, Aluminium, Copper and Alloys.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Occupational Exposure Limits

Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note	Source
Titanium Dioxide	13463-67-7	-	15	-	-		OSHA
	13403-07-7	-	10	-	-	A4	ACGIH

Notes:

A4: Not classified as a human carcinogen NIOSH: Ca, Appendix A

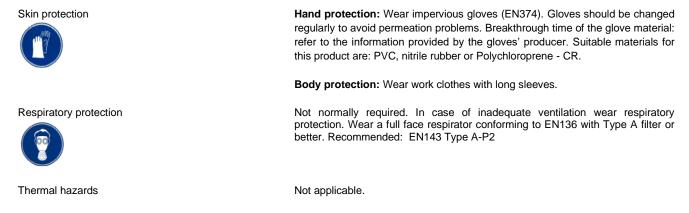
Source:

NIOSH: National Institute for Occupational Safety and Health (NIOSH) Recommended exposure limits (RELs) OSHA Permissible Exposure Limit (PEL): Occupational Safety and Health Standards, 1910.1000 TABLE Z-1 ACGIH: American Conference of Governmental Industrial Hygienists - Threshold limit values (TLV) 2017s

Biological limit value	Not established.
PNECs and DNELs	Not applicable
Exposure controls Appropriate engineering controls	Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Remove contaminated clothing and gloves and wash before re-use.
Individual protection measures, such as personal protective equipment (PPE)	Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Avoid breathing vapours. Do not eat, drink or smoke at the work place.
Eye/face protection	Wear eye protection with side protection ((Recommended: EN166).







Environmental Exposure Controls

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Odour	None
Odour Threshold	Not established
рН	10.5 – 11.2
Melting Point/Freezing Point	< 0 °C
Initial boiling point and boiling range	101 °C
Flash point	Not established
Evaporation Rate	Not established
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Not applicable - Liquid
Vapour pressure	Not established
Vapour density	Not established
Relative density	1.18 – 1.22
Solubility(ies)	Miscible with water.
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not established
Decomposition Temperature	Not established
Viscosity	60 – 100 cP
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2 Other information

None known

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	High Temperature, Temperatures below freezing as this may damage the product.
Incompatible materials	Keep away from oxidising substances. Avoid contact with acids and alkalis. Keep away from: Wood, Rubber, Aluminium, Copper and Alloys.
Hazardous decomposition product(s)	Combustion products: chlorine compounds

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity - Ingestion

Mixture: Based upon the available data, the classification criteria are not met.



	Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met.
Addie toxiony minutation	Calculated acute toxicity estimate (ATE) >20 mg/l
Acute toxicity - Skin Contact	Mixture: Based upon the available data, the classification criteria are not met.
······	Calculated acute toxicity estimate (ATE) > 2,000 mg/kg.
Skin corrosion/irritation	Mixture: Based upon the available data, the classification criteria are not met.
Sodium Chlorite	Skin corrosion/irritation, Category 1
	Causes skin necrosis. (rabbit) (OECD404)
Serious eye damage/irritation	Mixture: Based upon the available data, the classification criteria are not met.
Sodium Chlorite	Skin corrosion/irritation, Category 1
	Causes skin necrosis. (rabbit) (OECD404)
Respiratory or skin sensitization	Mixture: Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
Titanium dioxide	Titanium dioxide is listed by IARC as a Group 2B substance (possibly
	carcinogenic to humans), however, IARC mongraphs Vol. 93 states that exposure
	levels are assumed to be lower in the user industries, with the possible exception
	of workers who handle large quantities of titanium dioxide. Titanium dioxide in this
	mixture is mostly in a bound form. Therefore no significant exposure to titanium
	dioxide is thought to occur during the use of this product.
Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
STOT - single exposure	Mixture: Based upon the available data, the classification criteria are not met.
STOT - repeated exposure	Mixture: Specific target organ toxicity — repeated exposure, Category 2
Sodium Chlorite	Specific target organ toxicity — repeated exposure, Category 2
	NOAEL: 10 mg/kg/day. Adverse effects observed - adult mortality,
	haematological and histopathological changes of the spleen (rat) (OECD408)
	(Harrington RM et al., 1995)
Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
Information on likely routes of exposure	
Inhalation	Possible – accidental exposure
Ingestion	Possible – accidental exposure
Skin Contact	Possible – accidental exposure
Eye Contact	Unlikely – accidental exposure
Early onset symptoms related to exposure	None known
Delayed health effects from exposure	None known
Exposure levels and health effects	See Section: 8
Interactive effects	None known
Other information	
OSHA Designated Carcinogen	No components of the mixture are listed
NIOSH Occupational Carcinogen List	Titanium dioxide
NTP Report on Carcinogens	No components of the mixture are listed
IARC Monographs	Titanium dioxide – IARC Classification: Group 2B.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Sodium chlorite

Persistence and degradability Sodium chlorite Bioaccumulative potential Mixture: Hazardous to the aquatic environment, Chronic, Category 3 Estimated LC50 (96 hour) Fish > 10 mg/l \leq 100 mg/l Aquatic Chronic 1; H410 Acute: LC50 (fish) mg/l (96 hour) 105 (EPA OPP 72-1) Chronic: EC50 (Daphnia magna) mg/l (22 days) 0.085 (OECD 211) No data for the mixture as a whole. Not applicable for inorganic substances No data for the mixture as a whole.



Sodium chlorite

Mobility in soil Sodium chlorite

Results of PBT and VPVB assessment Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

The substance has low potential for bioaccumulation. Log Kow ≤ 3 No data for the mixture as a whole. The substance has low mobility in soil. Log Kow ≤ 3 Not classified as PBT or vPvB. None known.

Dispose of wastes in an approved waste disposal facility. Avoid release to the environment. Recover or recycle if possible. Dilute with a large volume of water. Disposal should be in accordance with local, state or national legislation. Recover or recycle if possible.

SECTION 14: TRANSPORT INFORMATION

UN number	Road/Rail (ADR/RID) Not classified as dangerous for transport.	Sea transport (IMDG) Not classified as dangerous for transport.	Air (ICAO/IATA) Not classified as dangerous for transport.
UN proper shipping name	Not classified	Not classified	Not classified
Transport hazard class(es)	Not classified	Not classified	Not classified
Packing group	Not classified	Not classified	Not classified
Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
Special precautions for user	See Section: 2		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable		
Additional Information	None		

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations	
TSCA Chemical Data Reporting (CDR) Rule	Titanium dioxide, Silicic acid, sodium salt, Sodium Chlorite, Sodium hydroxide - Subject to 25,000lb reporting threshold
NIOSH Occupational Carcinogen List	Titanium dioxide
EPCRA Section 313	No components of the mixture are listed
CWA 307- Toxic	No components of the mixture are listed
CERCLA - Hazardous Substances	Sodium hydroxide - Product RQ (lbs): 1000
CWA Section 311 List of Hazardous Substances	Sodium hydroxide
US State Regulations	
Proposition 65 (California)	Titanium dioxide - airborne, unbound particles of respirable size
Massachusetts, New Jersey, Pennsylvania, Rhode	Titanium dioxide - MSL, RTKHSL
Island- State Right to Know Lists	Sodium Chlorite – RTKHSL
-	Sodium hydroxide – MSL, RTKHSL, SHHSL
New York -State Right to Know Lists	Titanium dioxide, Sodium hydroxide - Hazardous Substance List - TRQ = 100
-	lbs
Minnesota - State Right to Know Lists	Titanium dioxide, Sodium hydroxide – CHC
Massachusetts – Toxic Use reduction act	No components of the mixture are listed
Non-Regional	
IARC Monographs	Titanium dioxide - IARC Classification: Group 2B.



SECTION 16: OTHER INFORMATION The following sections contain revisions or new statements: 1, 11. Updated version and date. Please review SDS with care. See below: Sections indicated with the following have been revised Version: 3.1 Date of preparation: 1st December 2020 Date Previous Issue: 24th April 2020 Classification of the substance or mixture in accordance with OSHA HCS (29 CFR 1910.1200) Appendicies A and B. LEGEND ADR/RID ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations concerning the international railway transport of dangerous goods BCF Bioconcentration factor (BCF) CAS CAS: Chemical Abstracts Service DNEL Derived No Effect Level EC EC: European Community ΕU **European Union** ΙΑΤΑ IATA: International Air Transport Association ICAO/IATA ICAO: International Civil Aviation Organization / IATA: International Air Transport Association IMDG IMDG: International Maritime Dangerous Goods PBT Persistent, Bioaccumulative and Toxic

PNEC Predicted No Effect Concentration

UN United Nations

vPvB very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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