Issuing date 11-Nov-2015

Revision Date 04-Jun-2021

Version 1.03

SAFETY DATA SHEET.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product name

PC-100-12C POWER CLEAN

Recommended use of the chemical and restrictions on use

Product Type Synonyms

Non-flammable aerosol None

Supplier's details

Recommended Use

Mold Cleaner.

Uses advised against

No information available

Manufacturer:

Nanoplas Inc. 2950 Prairie St. SW, Suite 900 Grandville, MI 49418 NANOPLAS (616)-452-3707

Emergency telephone number Chemical Emergency Phone CHEMTREC: 1-800-262-8200 ID 1195 (UNITED STATES) Number

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Gases under pressure	Compressed Gas

GHS Label elements, including precautionary statements

Emergency Overview

DANGER

Hazard Statements

Causes skin irritation. Causes serious eye irritation. Suspected of causing geneticdefects Suspected of causing cancer. May cause respiratory irritation. May cause drowsiness or dizziness. Contains gas under pressure; may explode if heated



Appearance Clear

Physical state Aerosol

Odor Solvent

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,eye protection,face protection. Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing fumes, gas, mist, vapors, spray. Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

If exposed or concerned: Call a poison center, doctor. Specific treatment (see first aid on this label). 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 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice, attention. Take off contaminated clothing and wash it before reuse. IF INHALED : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor, physician if you feel unwell.

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight

Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC)

None

Other information

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
TRICHLOROETHYLENE	79-01-6	80-90
ISOPROPYL ALCOHOL	67-63-0	1-10
CARBON DIOXIDE	124-38-9	1-10
1,2-BUTYLENE OXIDE	106-88-7	<1

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, or gas.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing. If eye irritation persists, consult a doctor.
Skin contact	Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.
Ingestion	Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.
Protection of First-aiders	Remove all sources of ignition.
Most important symptoms/effects,	acute and delayed
Main Symptoms	Causes skin and serious eye irritation. Suspected of causing genetic defects. Suspected of causing cancer. May cause respiratory irritation. May cause drowsiness or dizziness.
Indication of immediate medical att	ention and special treatment needed, if necessary
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u> Water fog.Dry chemical. Foam.Carbon dioxide (CO2). Cool containers/tanks with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire. Keep away from sources of ignition - No smoking.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. In the event of fire and/or explosion do not breathe fumes.

Hazardous CombustionAcrid smoke/fumes. Carbon oxides , Hydrocarbons, Fumes. Sulfur oxides.Products

Explosion Data Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

In the event of fire and/or explosion do not breathe fumes. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use with adequate ventiliation to keep the exposure levels below the OELS. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	
Environmental precautions	Vapors can accumulate in low areas. Report spills as required by local and federal regulations. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.
Methods and materials for conta	ninment and cleaning up
Methods for Containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains.
Methods for cleaning up	Soak up with inert absorbent material. Contain liquid and collect with an inter, non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly . After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Advice on safe handling	Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges.
Advice on safe handling Conditions for safe storage, inc	from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges.
	from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges.
<u>Conditions for safe storage, inc</u> Technical measures/Storage	from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges. Iuding any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep out
<u>Conditions for safe storage, inc</u> Technical measures/Storage conditions Incompatible products	from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges. Inding any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep ou of the reach of children. Store locked up.

Control parameters

Exposure Guidelines

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Revision Date 04-Jun-2021

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
TRICHLOROETHYLENE	STEL: 25 ppm	TWA: 100 ppm	IDLH: 1000 ppm
79-01-6	TWA: 10 ppm	(vacated) TWA: 50 ppm	
		(vacated) TWA: 270 mg/m ³	
		(vacated) STEL: 200 ppm	
		(vacated) STEL: 1080 mg/m ³	
		Ceiling: 200 ppm	
ISOPROPYL ALCOHOL	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m ³	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m ³
		(vacated) TWA: 980 mg/m ³	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m ³
		(vacated) STEL: 1225 mg/m ³	
CARBON DIOXIDE	STEL: 30000 ppm	TWA: 5000 ppm	IDLH: 40000 ppm
124-38-9	TWA: 5000 ppm	TWA: 9000 mg/m ³	TWA: 5000 ppm
		(vacated) TWA: 10000 ppm	TWA: 9000 mg/m ³
		(vacated) TWA: 18000 mg/m ³	STEL: 30000 ppm
		(vacated) STEL: 30000 ppm	STEL: 54000 mg/m ³
		(vacated) STEL: 54000 mg/m ³	

ACGIH: (American Conference of Governmental Industrial Hygienists) OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

Engineering Measures Ventilation systems. Use adequate ventilation to keep the exposure levels below the occupational exposure limits. Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

<u></u>	
Eye/Face Protection Tightly fitting safety goggles. Safety glasses with side-shields.	
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Appearance Color

Property pH Melting/freezing point Boiling point/boiling range Flash Point Evaporation rate Flammability (solid, gas) Flammability Limits in Air upper flammability limit lower flammability limit Vapor pressure Vapor density Aerosol Clear Clear

Values No information available No information available

12 °C / 54 °F No information available No information available Odor Odor Threshold Solvent

Remarks • Methods

Closed cup (based on components)

PC-100-12C POWER CLEAN

Specific Gravity Water solubility Partition coefficient: n-octanol/wate Autoignition temperature Decomposition temperature Viscosity Explosive properties	1.362 Negligible r No information available No information available	Not applicable	
Other information			
VOC Content(%)	95.43		
	10. STABILITY A	ND REACTIVITY	
Reactivity Stable under recommended storage conditions	No data available		
<u>Chemical stability</u> Stable under recommended storage co	onditions.		
Possibility of hazardous reactions None under normal processing.			
<u>Conditions to Avoid</u> Extremes of temperature and direct su	nlight.		
Incompatible Materials Strong acids, alkalis, oxidizing agents.			
Hazardous Decomposition Products Carbon oxides , Hydrocarbons, Fumes			
	11. TOXICOLOGIC	AL INFORMATION	
Information on likely routes of expo	sure		
Product Information			
Inhalation	May cause respiratory irrita	ation, May cause drowsiness or di	zziness.
Eye contact	Eye contact Causes serious eye irritation.		
Skin contact	Skin contact Causes skin irritation.		
Ingestion	Ingestion May be harmful if swallowed.		
Component Information			
Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
TRICHLOROETHYLENE 79-01-6	= 4920 mg/kg (Rat)	= 29000 mg/kg (Rabbit)	= 26 mg/L (Rat) 4 h
ISOPROPYL ALCOHOL 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m³ (Rat) 4 h
1,2-BUTYLENE OXIDE = 900 mg/kg (Rat) 1255 - 2546 mg/kg (Rabbit) > 6300 mg/m³ (Rat) 4 h 106-88-7			> 6300 mg/m³ (Rat) 4 h

Information on toxicological effects

Symptoms

Causes skin and serious eye irritation. Suspected of causing genetic defects. Suspected of causing cancer. May cause drowsiness or dizziness. May cause respiratory irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Irritating to sk	in.		
Eye damage/irritation	Irritating to eyes.			
Sensitization	Not a known sensitizer.			
Germ cell mutagenicity				
Carcinogenicity	The table below	ow indicates whether each	agency has evaluated a li	sted ingredient as a
	carcinogen.			
Chemical Name	ACGIH	IARC	NTP	OSHA
TRICHLOROETHYLENE 79-01-6	A2	Group 2A	Known	Х
1,2-BUTYLENE OXIDE 106-88-7	- rence of Governmental Inc	Group 2B	-	Х
Group 1 - Carcinogenic to I Group 2B - Possibly Carcin Group 3 - Not Classifiable a Group 2A - Probably Carcin NTP: (National Toxicity P Reasonably Anticipated - F Known - Known Carcinogen	acy for Research on Cancel Humans logenic to Humans as to Carcinogenicity in Hum nogenic to Humans rogram) Reasonably Anticipated to be n Reasonably Anticipated to be n Reasonably Anticipated to be n Product is or Product is or emic May cause re emic No known eff	ans e a Human Carcinogen	use drowsiness or dizzines	
Chronic toxicity Target Organ Effects				
Neurological effects	fatal.		nicating and innaling conte	ms may be narmiul of
Aspiration hazard	No informatio	n available.		
Numerical measures of to	<u> kicity - Product Informa</u>	<u>ition</u>		
Unknown Acute Toxicity	0% of the mix	ture consists of ingredient	(s) of unknown toxicity.	

The following values are calculated based on chapter 3.1 of the GHS document . 89955 mg/kg 284.3 mg/l ATEmix (dermal)

ATEmix (inhalation-dust/mist)

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
TRICHLOROETHYLENE 79-01-6	175 mg/L EC50 Pseudokirchneriella subcapitata 96h 450 mg/L EC50 Desmodesmus subspicatus 96h	31.4 - 71.8 mg/L LC50 Pimephales promelas 96h flow-through 39 - 54 mg/L LC50 Lepomis macrochirus 96h static	-	2.2 mg/L EC50 Daphnia magna 48h
ISOPROPYL ALCOHOL 67-63-0	1000 mg/L EC50 Desmodesmus subspicatus 72h 1000 mg/L EC50 Desmodesmus subspicatus 96h	11130 mg/L LC50 Pimephales promelas 96h static 9640 mg/L LC50 Pimephales promelas 96h flow-through 1400000 μg/L LC50 Lepomis macrochirus 96h	-	13299 mg/L EC50 Daphnia magna 48h
CARBON DIOXIDE 124-38-9	-	0.46 mg/L LC50 Oncorhynchus mykiss	-	-

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1	1,2-BUTYLENE OXIDE	500 mg/L EC50	-	-	69.8 mg/L EC50 Daphnia
	106-88-7	Desmodesmus subspicatus			magna 48h
		72h			_

Persistence and degradability

Bioaccumulation

Chemical Name	log Pow
TRICHLOROETHYLENE 79-01-6	2.4
ISOPROPYL ALCOHOL 67-63-0	0.05
1,2-BUTYLENE OXIDE 106-88-7	0.416

Other adverse effects

International Inventories

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment	
Waste Disposal Methods	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with federal, state, and local regulations. Dispose of in accordance with local regulations. Dispose of in accordance with federal, state, and local regulations.
Contaminated packaging	Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Pressurized container: Do not pierce or burn, even after use.

14. TRANSPORT INFORMATION

ΙΑΤΑ	UN1950, AEROSOLS, NON-FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION 6.1, PACKING GROUP III, 2.2 (6.1), LTD. QTY
IMDG	UN1950, AEROSOLS, 2.2,LTD. QTY. UN1950, AEROSOLS, NON-FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION 6.1, PACKING GROUP III, 2.2 (6.1), LTD. QTY

15. REGULATORY INFORMATION

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
TRICHLOROETHYLE NE	Х	Х	Х	Х	Х	Х	Х	Х
ISOPROPYL ALCOHOL	Х	Х	Х	Х	Х	Х	Х	Х

CARBON DIOXIDE	Х	Х	Х	Х	Х	Х	Х	Х
1,2-BUTYLENE OXIDE	Х	Х	Х	Х	Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %
TRICHLOROETHYLENE - 79-01-6	79-01-6	80-90	0.1
ISOPROPYL ALCOHOL - 67-63-0	67-63-0	1-10	1.0
1,2-BUTYLENE OXIDE - 106-88-7	106-88-7	<1	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Star Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

Clean Water Act

This product does contain the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
TRICHLOROETHYLENE 79-01-6	100 lb	Х	Х	Х

CERCLA

This material, as supplied, does contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
TRICHLOROETHYLENE 79-01-6	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
1,2-BUTYLENE OXIDE 106-88-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:



This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Γ	Chemical Name	California Prop. 65
	TRICHLOROETHYLENE - 79-01-6	Carcinogen
		Developmental, Male 80-90%

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
TRICHLOROETHYLENE 79-01-6	Х	Х	Х
ISOPROPYL ALCOHOL 67-63-0	Х	X	Х
CARBON DIOXIDE 124-38-9	Х	X	Х
1,2-BUTYLENE OXIDE 106-88-7	Х	X	Х

EPA Pesticide Registration Number Not applicable

<u>Canada</u>

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

16. OTHER INFORMATION								
<u>NFPA</u>	Health Hazard 2	Flammability 1	Instability 0	Physical and chemical hazards -				
HMIS	Health Hazard 2*	Flammability 1	Physical Hazard 1	Personal protection B				
Chronic Hazard Star Lege	Chronic Hazard Star Legend Chronic Health Star Hazard Repeated or prolonged exposure may cause central nervous system damage Chlorinated solvents. Severe overexposure may cause liver or kidney damage.							
Prepared By	Nanoplas Inc.							
	2950 Prairie S	St. SW, Suite 900						
	Grandville. MI	49418						
	NANOPLAS (616)-452-3707						
Issuing date	11-Nov-2	015						
Revision Date	04-Jun-2	021						
Revision Note								
1 (M)SDS sections upda	ated							
<u>Disclaimer</u>								
The second se								

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet