



UltraClean

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 10/17/2023 Version: 2.0

		Revision date: 10/17/2023 Ve	rsion: 2.0		
SECTION 1: Identifi					
1.1. Identificate Product form	ation .	Mixture			
Product name		UltraClean			
	nended use and restrictions on use				
Use of the substance		Cleaner			
1.3. Supplier BioChem Systems, I					
480 Wildwood Fores					
Suite 400 Spring, TX 77380					
1 (800) 777-7870					
1.4. Emerger	ncy telephone number				
Emergency number	-	PERS - (800) 633-8253			
SECTION 2: Hazard					
2.1. Classific GHS-US classificati	ation of the substance or mixture				
Flam. Aerosol 1 H2					
Skin Irrit. 2 H3 Skin Sens. 1 H3					
Asp. Tox. 1 H3					
2.2. GHS Lab	el elements, including precautiona	rv statements			
GHS US labelling					
Hazard pictograms (GHS US) :	$\land \land \land$			
		\vee \vee \vee			
Signal word (GHS U		Danger			
Hazard statements (GHS US) :	H222 - Extremely flammable aerosol. H304 - May be fatal if swallowed and enters airways.			
		H315 - Causes skin irritation.			
		H317 - May cause an allergic skin reaction.	n 1.4 1.42		
Precautionary statem	nents (GHS US)	P210 - Keep away from heat, hot surfaces, sparks, or P211 - Do not spray on an open flame or other ignition		sources. No	smoking.
		P251 - Do not pierce or burn, even after use.			
		P261 - Avoid breathing dust/fume/gas/mist/vapours/s			
		P264 - Wash hands, forearms and face thoroughly a P272 - Contaminated work clothing must not be allow			
		P280 - Wear eye protection, face protection, protecti	ve clothing, protective gloves.		
		P301+P310 - IF SWALLOWED: Immediately call a d P302+P352 - If on skin: Wash with plenty of water.	octor, a poison center		
		P321 - Specific treatment (see supplemental first aid	instruction on this label).		
		P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical ad	via a lattantian		
		P333+P313 - If skin irritation or rash occurs: Get medical ad			
		P362+P364 - Take off contaminated clothing and wa	sh it before reuse.		
		P363 - Wash contaminated clothing before reuse. P405 - Store locked up.			
		P410+P412 - Protect from sunlight. Do not expose to	temperatures exceeding 50	°C/122 °F.	
		P501 - Dispose of contents/container to a licensed h			ection site
2.3. Other ha	zards which do not result in classi	except for empty clean containers which can be disp	used of as non-nazardous Wa	1310.	
No additional informa	ation available				
2.4. Unknown Not applicable	n acute toxicity (GHS US)				
	osition/information on ingredients				
3.1. Substan	-				
Not applicable 3.2. Mixtures					
	Name		Product identifier	%	
	Terpenes and Terpenoids, sweet orange-	oil	Proprietary	70 80 – 100	
	Carbon Dioxide (as compressed gas)		(CAS-No.) 124-38-9	3 – 7	
In accordance with pa	aragraph (i) of the OSHA Hazard Commun	lication Standard (29 CFR §1910.1200), the specific chemica	I identity or exact weight % has	been withhel	d as a trade secret.
SECTION 4: First-ai			,		
	ion of first aid measures				
First-aid measures g		If exposed or concerned, get medical attention/advic			
First-aid measures a	fter inhalation	attendance. Wash contaminated clothing before re-u IF INHALED: Remove to fresh air and keep at rest in			
inst-aiu measures a		attention. If breathing is difficult, supply oxygen. If breathing			
First-aid measures a	fter skin contact :	IF ON SKIN (or clothing): Remove affected clothing a	ind wash all exposed skin wit		
First-aid measures a	fter eve contact	minutes. If irritation develops or persists, get medical IF IN EYES: Immediately flush with plenty of water for		e contact len	ses if present
an mousures a		and easy to do so. Continue rinsing if pain, blinking,			
First-aid moscures a	fter indestion	Continue rinsing.	luce vomiting without advice	from poison -	control contor
First-aid measures a		IF SWALLOWED: rinse mouth thoroughly. Do not inc or medical professional. Get medical attention immed		nom poison (control center
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4.2. Most important symptoms and effects (acute	arch 26, 2012 / Rules and Regulations
	May be fatal if swallowed and enters airways. Causes skin irritation.
	May be fatal if swallowed and enters airways. Causes skin mitation.
	May cause skin irritation.
	Causes serious eve irritation.
	May be fatal if swallowed and enters airways.
4.3. Immediate medical attention and special treaters No additional information available.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing med	lia
	Foam. Carbon dioxide. Dry chemical. Water fog.
	None known.
0 0	
	Extremely flammable aerosol.
	Heating may cause an explosion.
	No dangerous reactions known under normal conditions of use.
-	•
5.3. Special protective equipment and precaution	
	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Firefighting instructions :	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do
	not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and
Protoction during firefighting	products of combustion.
Protection during firefighting :	Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained
SECTION & Appidontal relates management	breathing apparatus.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment	
General measures :	Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Use special care to avoid static electric charges. Avoid breathing fumes or vapours. No flames, no sparks. Eliminate all sources of ignition. Vapor may cause flash fires. Vapors are heavier than air and can travel long distances to ignition sources.
6.1.1. For non-emergency personnel	
	Wear Protective equipment as described in Section 8.
Emergency procedures :	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment :	Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.
6.2. Environmental precautions	
	es if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containment and c	
	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
	Eliminate ignition sources. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation. Notify authorities if product enters sewers or public waters.
6.4. Reference to other sections See Sections 8 and 13.	
See Sections 6 and 15. SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
· · · · · · · · · · · · · · · · · · ·	Do not handle until all safety precautions have been read and understood. Keep away from heat, hot
i recautions for sale nationing	surfaces, sparks, open flames and other ignition sources. No smoking. Provide good ventilation in process
	area to prevent formation of vapour. Avoid breathing vapours, mist. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage. including any in	Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain
	product residue and can be hazardous.
Technical measures :	Store in a well-ventilated place. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and
Technical measures :	

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Terpenes and Te	rpenoids, sweet orange-oil		
ACGIH	Remark (ACGIH)	OELs not established	
OSHA	Remark (OSHA)	OELs not established	
Carbon Dioxide	as compressed gas) (124-38-9)		
ACGIH	ACGIH OEL TWA [ppm]	5000 ppm	
ACGIH	ACGIH OEL STEL [ppm]	30000 ppm	
OSHA	OSHA PEL TWA [1]	9000 mg/m ³	
OSHA	OSHA PEL TWA [2]	5000 ppm	
OSHA	OSHA PEL STEL [1]	54000 mg/m ³	
OSHA	OSHA PEL STEL [2]	30000 ppm	
IDLH	IDLH [ppm]	40000 ppm	

8.2. Appropriate engineering controls Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):

Personal protective equipment:

Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.

Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection:

In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and cher	mical properties
Physical state	: Aerosol / Liquid
Appearance	: Liquid Mist
Colour	: Clear
Odour	: Orange
Odour threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
9.2. Other information	

 No additional information available

 SECTION 10: Stability and reactivity

 10.1.
 Reactivity

 No dangerous reactions known under normal conditions of use.

 10.2.
 Chemical stability

 Stable under recommended handling and storage conditions (see section 7).

 10.3.
 Possibility of hazardous reactions

 None known.

 10.4.
 Conditions to avoid

 No flames, no sparks. Eliminate all sources of ignition. Elevated temperature. Prevent vapour accumulation.

10.5. Incompatible materials Strong oxidizing agents, reducing agents.

10.6.Hazardous decomposition products

Carbon oxides (CO, CO2). Toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicolo	gical effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	

Terpenes and Terpenoids, sweet orange-oil	
LD50 oral rat	4400 mg/kg Source: HNSO CCID
Carbon Dioxide (as compressed gas) (124-38-9)	
LD50 oral rat	study technically not feasible
LD50 dermal rat	study technically not feasible
LC50 Inhalation - Rat	not classified
Skin corrosion/irritation Serious eye damage/irritation	: Causes skin irritation. : Not classified



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Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: No data available
Symptoms/effects	: May be fatal if swallowed and enters airways. Causes skin irritation.
Symptoms/effects after inhalation Symptoms/effects after skin contact	: May be fatal if swallowed and enters airways. : May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	May be fatal if swallowed and enters airways.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	. No dete surlichte
Other adverse effects	: No data available.
SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	 Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be
	released into the environment. Container under pressure. Do not drill or burn even after use.
SECTION 14: Transport information	
Department of Transportation (DOT)	
Transport document description (DOT)	: UN1950 Aerosols (Limited quantity), 2.1
UN-No.(DOT)	: UN1950
Proper Shipping Name (DOT)	: Aerosols
	Limited quantity
Class (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT) DOT Quantity Limitations Passenger aircraft/rail (49	: LTD QTY - Limited quantity
CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR	: 150 kg
175.75)	
DOT Special Provisions (49 CFR 172.102)	: N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Packaging Non Bulk (49 CFR 173.xxx)	: None
DOT Packaging Bulk (49 CFR 173.xxx) DOT Vessel Stowage Location	: None : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	
Der vesser blowage etner	
	 25 - Protected from sources of heat,87 - Stow "separated from" Class 1 (explosives) except Division 14,126 Segregation same as for Class 9. miscellaneous hazardous materials
Emergency Response Guide (ERG) Number	- Segregation same as for Class 9, miscellaneous hazardous materials : 126
	 Segregation same as for Class 9, miscellaneous hazardous materials 126
Other information	- Segregation same as for Class 9, miscellaneous hazardous materials
Other information Transport by sea (IMDG)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available.
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Other information Transport by sea (IMDG) Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available. UN 1950 AEROSOLS (Limited quantity), 2.1 1950
Other information Transport by sea (IMDG) Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Danger labels (IMDG)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available. UN 1950 AEROSOLS (Limited quantity), 2.1 1950 AEROSOLS 2 - Gases
Other information Transport by sea (IMDG) Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Danger labels (IMDG) Special provisions (IMDG)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available. UN 1950 AEROSOLS (Limited quantity), 2.1 1950 AEROSOLS 2 - Gases 63, 190, 277, 327, 344, 959
Other information Transport by sea (IMDG) Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Danger labels (IMDG) Special provisions (IMDG) Limited quantities (IMDG)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available. UN 1950 AEROSOLS (Limited quantity), 2.1 1950 AEROSOLS 2 - Gases 63, 190, 277, 327, 344, 959 SP277
Other information Transport by sea (IMDG) Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Danger labels (IMDG) Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available. UN 1950 AEROSOLS (Limited quantity), 2.1 1950 AEROSOLS 2 - Gases 63, 190, 277, 327, 344, 959 SP277 E0
Other information Transport by sea (IMDG) Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Danger labels (IMDG) Special provisions (IMDG) Limited quantities (IMDG)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available. UN 1950 AEROSOLS (Limited quantity), 2.1 1950 AEROSOLS 2 - Gases 63, 190, 277, 327, 344, 959 SP277
Other information Transport by sea (IMDG) Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Danger labels (IMDG) Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available. UN 1950 AEROSOLS (Limited quantity), 2.1 1950 AEROSOLS 2 - Gases 63, 190, 277, 327, 344, 959 SP277 E0 P207, LP02
Other information Transport by sea (IMDG) Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Danger labels (IMDG) Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Special packing provisions (IMDG)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available. UN 1950 AEROSOLS (Limited quantity), 2.1 1950 AEROSOLS 2 - Gases 63, 190, 277, 327, 344, 959 SP277 E0 P207, LP02 PP87, L2
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Other information Transport by sea (IMDG) Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Danger labels (IMDG) Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Special packing provisions (IMDG) Stowage category (IMDG) Air transport (IATA) Transport document description (IATA) UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA)	 Segregation same as for Class 9, miscellaneous hazardous materials 126 No supplementary information available. UN 1950 AEROSOLS (Limited quantity), 2.1 1950 AEROSOLS 2 - Gases 63, 190, 277, 327, 344, 959 SP277 E0 P207, LP02 PP87, L2 None UN 1950 Aerosols (limited quantity), 2.1 1950
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UltraClean

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

UltraClean		
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt.		
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Aspiration hazard Health hazard - Skin corrosion or Irritation	

15.2. International regulations

No additional information available

15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Component	State or local regulations
Carbon Dioxide (as compressed gas) (124-3	8-9) U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
SECTION 16: Other information	
Other information Dther information	 Revised by: Regulatory & Compliance. Revision: 10/17/2023
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and hurs readily.
NFPA reactivity	 O - Material that in themselves are normally stable, even under fire conditions.
HMIS Hazard Rating	
Health Flammability Physical	: 2 : 4 : 0

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.