

Version 4.1	Revision Date 02/25/2020	Print Date 03/06/2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name	:	TM CRISP+CLEAN REFILL 2PK
Material number	:	TMFB32PK
Manufacturer or supplier's o	leta	nils
Company	:	Zep Inc.
Address	:	350 Joe Frank Harris Parkway, SE Emerson, GA 30137
Telephone	:	404-352-1680

Emergency telephone numbers

For SDS Information	:	Compliance Services 1-877-428-9937
For a Medical Emergency	:	877-541-2016 Toll Free - All Calls Recorded
For a Transportation	:	CHEMTREC: 800-424-9300 - All Calls Recorded.
Emergency		In the District of Columbia 202-483-7616

Recommended use of the chemical and restrictions on use

Recommended use : Air Care

Note: This product is labeled as a consumer product in accordance with the United States Consumer Product Safety Commission regulations. The warnings presented below in this Safety Data Sheet (SDS) comply with the 2012 OSHA Hazard Communication Standard (GHS - Globally Harmonized System of Classification and Labeling). The requirements for the labeling and warnings of consumer products may differ from those required for GHS based hazard communication.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Aerosol containing a liquefied gas
Colour	colourless, light yellow
Odour	characteristic

GHS Classification

Flammable aerosols	:	Category 2
Gases under pressure	:	Liquefied gas
Eye irritation	:	Category 2A
Skin sensitisation	:	Category 1
Specific target organ toxicity -	:	Category 3 (Central nervous system)
single exposure		

GHS label elements

Hazard pictograms

Signal word





Version 4.1	Revision Date 02/25/2020	Print Date 03/06/2020
Hazard statements	 H223 Flammable aerosol. H280 Contains gas under press H317 May cause an allergic skir H319 Causes serious eye irritati H336 May cause drowsiness or 	n reaction.
Precautionary statements	 Prevention: P210 Keep away from heat/spar No smoking. P211 Do not spray on an open f P251 Pressurized container: Do use. P261 Avoid breathing dust/ fume P264 Wash skin thoroughly afte P271 Use only outdoors or in a P272 Contaminated work clothin the workplace. P280 Wear protective gloves/ ey Response: P302 + P352 IF ON SKIN: Wash P304 + P340 + P312 IF INHALE and keep comfortable for breath CENTER/doctor if you feel unwe P305 + P351 + P338 IF IN EYES for several minutes. Remove col easy to do. Continue rinsing. P333 + P313 If skin irritation or n advice/ attention. P337 + P313 If eye irritation per- attention. P363 Wash contaminated clothin Storage: P403 + P233 Store in a well-ven- tightly closed. P410 + P412 Protect from sunlig temperatures exceeding 50 °C/ Disposal: P501 Dispose of contents/conta- regulation. 	lame or other ignition source. not pierce or burn, even after e/ gas/ mist/ vapours/ spray. r handling. well-ventilated area. ng should not be allowed out of ye protection/ face protection. h with plenty of soap and water. ED: Remove person to fresh air ing. Call a POISON ell. S: Rinse cautiously with water ntact lenses, if present and rash occurs: Get medical sists: Get medical advice/ ng before reuse. htilated place. Keep container ght. Do not expose to 122 °F.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
1,1-difluoroethane	75-37-6	>= 50 - < 70
propan-2-ol	67-63-0	>= 20 - < 30
Distillates (petroleum), hydrotreated light	64742-47-8	>= 5 - < 10
benzyl salicylate	118-58-1	>= 0.1 - < 1
hexyl salicylate	6259-76-3	>= 0.1 - < 1



Version 4.1	Revision Date 02/25/2020	Print Date 03/06/2020
3,7-Dimethyloctan-3-yl acetate	20780-48-7	>= 0.1 - < 1

3,7-Dimethyloctan-3-yl acetate20780-48-7The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

General advice	S	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	lt	Consult a physician after significant exposure. f unconscious, place in recovery position and seek medical advice.
In case of skin contact	С	n case of contact, immediately flush skin with soap and plenty of water. f skin irritation persists, call a physician.
In case of eye contact	F M II	Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. f eye irritation persists, consult a specialist. Rinse immediately with plenty of water for at least 15 minutes.
If swallowed	N II E P	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. f symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Fake victim immediately to hospital.
Most important symptoms and effects, both acute and delayed		Effects are immediate and delayed. Symptoms may include irritation, redness, pain, and rash. Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness, paralysis, and convulsions.
	C N	Effects are dependent on exposure (dose, concentration, contact time). Causes serious eye irritation. May cause drowsiness or dizziness. Review section 2 of SDS to see all potential hazards.
Notes to physician	: T	Freat symptomatically. Symptoms may be delayed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during	:	Do not allow run-off from fire fighting to enter drains or water



Version 4.1	Revision Date 02/25/20	020 Print Date 03/06/2020
firefighting	courses.	
Hazardous combustion products	: Carbon dioxide (CO2) Carbon monoxide Smoke Fluorine compounds Hydrogen fluoride Fluorocarbons Nitrogen oxides (NOx)	
Specific extinguishing methods	: Use extinguishing measure	sures that are appropriate to local surrounding environment.
Further information	must not be discharged Fire residues and conta be disposed of in accor For safety reasons in ca separately in closed co	aminated fire extinguishing water must dance with local regulations. ase of fire, cans should be stored
Special protective equipment for firefighters	: Wear self-contained bre necessary.	eathing apparatus for firefighting if

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains, inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
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Version 4.1	Revision Date 02/25/2020	Print Date 03/06/2020
Conditions for safe storage	 BEWARE: Aerosol is pressurized. exposure and temperatures over 5 or throw into fire even after use. De red-hot objects. No smoking. Observe label precautions. Keep in a dry, cool and well-ventila Electrical installations / working ma the technological safety standards 	i0 °C. Do not open by force o not spray on flames or ated place. aterials must comply with
Materials to avoid	: Keep away from oxidizing agents a materials.	and strongly acid or alkaline

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters /	Basis
		exposure)	Permissible concentration	
1,1-difluoroethane	75-37-6	TWA	1,000 ppm	US WEEL
propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0
		PEL	400 ppm 980 mg/m3	CAL PEL
		STEL	500 ppm 1,225 mg/m3	CAL PEL
Distillates (petroleum), hydrotreated light	64742-47-8	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		PEL (particulate)	5 mg/m3	CAL PEL

Biological occupational exposure limits

CAS-No.	Control	Biological	Sampling	Permissible	Basis
	parameters	specimen	time	concentration	
67-63-0	Acetone	Urine	End of	40 mg/l	ACGIH BEI
		parameters	parameters specimen	parameters specimen time	parameters specimen time concentration



Version 4.1	Revision Date 02/25/2020	Print Date 03/06/2020
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Engineering measures	: effective ventilation in all proces	ssing areas
Personal protective equipn	ent	
Respiratory protection	: No personal respiratory protecti required.	ive equipment normally
Hand protection Remarks	: Skin should be washed after co	ontact.
Eye protection	: Always wear eye protection who eye contact with the product ca	
Skin and body protection	: No special protection is required	d.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Aerosol containing a liquefied gas
Colour	: colourless, light yellow
Odour	: characteristic
Odour Threshold	: No data available
рН	: Not applicable
Melting point/freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: partly soluble
Partition coefficient: n-	: No data available



Version 4.1	Revision Date 02/25/2020	Print Date 03/06/2020
octanol/water		
Auto-ignition temperature	: not determined	
Thermal decomposition	: No data available	
Viscosity		
Viscosity, kinematic	: No data available	
Heat of combustion	: 21.65 kJ/g	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials	: Acids Oxidizing agents
Hazardous decomposition products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical Condition	: None known.
Symptoms of Overexposure	 Effects are immediate and delayed. Symptoms may include irritation, redness, pain, and rash. Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness, paralysis, and convulsions. Effects are dependent on exposure (dose, concentration, contact time).
Carcinogenicity:	
our onrogoniony.	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.



Version 4.1	Revision Date 02/25/2020	Print Date 03/06/2020	
ACGIH	No component of this product prese equal to 0.1% is identified as a card carcinogen by ACGIH.		
OSHA	No component of this product present at levels greater than or		
NTP	equal to 0.1% is on OSHA's list of regulated carcinogens. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
Acute toxicity			
Product:			
Acute oral toxicity	: Acute toxicity estimate : > 5,000 Method: Calculation method	mg/kg	
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 Method: Calculation method	mg/kg	
Components:			
1,1-difluoroethane:			
Acute inhalation toxicity	: LC50 Mouse: 977,000 mg/l Exposure time: 2 h		
propan-2-ol:			
Acute oral toxicity	: LD50 Oral Rat: 4,396 mg/kg Method: Calculation method		
Distillates (petroleum), hyd Acute oral toxicity	rotreated light: : LD50 Rat: > 5,000 mg/kg		
Acute inhalation toxicity	: LC50 Rat: > 4.6 mg/l Exposure time: 6 h		
Acute dermal toxicity	: LD50 Rat: > 2,000 mg/kg		
benzyl salicylate: Acute oral toxicity	: LD50 Oral Rat: 2,227 mg/kg		
Skin corrosion/irritation			
Product:			
Remarks: May cause skin irrit	ation and/or dermatitis.		
Serious eye damage/eye irritatio	n		
Product:			
Remarks: Severe eye irritation	n		
Respiratory or skin sensitisation	ı		
Product:			



Version 4.1

Revision Date 02/25/2020

Print Date 03/06/2020

Remarks: Causes sensitisation.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available Bioaccumulative potential

Product:

Partition coefficient: n- octanol/water <u>Components:</u>	: Remarks: No data available
propan-2-ol : Partition coefficient: n-	: log Pow: 0.05
octanol/water	
benzyl salicylate : Partition coefficient: n-	: log Pow: 4 (35 °C)
octanol/water	. log i ow. i (oo o)

Mobility in soil



Version 4.1	Revision Date 02/25/2020	Print Date 03/06/2020
No data available		
Other adverse effects		
No data available <u>Product:</u>		
Regulation	40 CFR Protection of Environme Stratospheric Ozone - CAA Sec Substances	
Remarks	This product neither contains, new with a Class I or Class II ODS a Clean Air Act Section 602 (40 C + B).	s defined by the U.S.
Additional ecological information	: No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA): UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: IMDG (Vessel): UN1950, AEROSOLS, 2.1, - Limited quantity

Transportation Regulation: IATA (Cargo Air): UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air): UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: TDG (Canada): UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications

SAFETY DATA SHEET



TM CRISP+CLEAN REFILL 2PK

Version 4.1

Revision Date 02/25/2020

Print Date 03/06/2020

noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list

: No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
hydroguinone	123-31-9	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
hydroquinone	123-31-9	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards	Flammable (gases, aerosols, liquids, or solids) Gases under pressure Serious eye damage or eye irritation Respiratory or skin sensitisation Specific target organ toxicity (single or repeated exposure)
SARA 302 :	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 :	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
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 components of this product are reported in the following inventories:

DSL This product contains one or more components that are listed on the



Version 4.1	Revision Date 02/25/2020	Print Date 03/06/2020

TSCA

Canadian NDSL. All other components are on the Canadian DSL. **On TSCA Inventory**

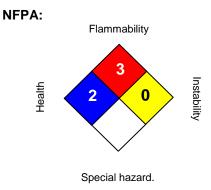
For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

SECTION 16. OTHER INFORMATION

Further information



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	3

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

OSHA - GHS Label Information:

Hazard pictograms	
Signal word	: Warning:
Hazard statements	 Flammable aerosol. Contains gas under pressure; may explode if heated. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary statements	:
	 Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ eye protection/ face protection. Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Before reuse. Storage: Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Disposal: Dispose of contents/container in accordance with local regulation.



Version 4.1

Revision Date 02/25/2020

Print Date 03/06/2020

Version:	4.1
Revision Date:	02/25/2020
Print Date:	03/06/2020

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