Version 5.1		Revision Date 06/22/2020	Print Date 07/13/2022
SECTION 1. PRODUCT AND	COMPA	ANY IDENTIFICATION	
Material name	:	ZEP NON-CHLORINATED BRAK 20N14 12CT	E CLEANER LOW VOC
Material number	:	00000000001047993	
Manufacturer or supplie	er's deta	ills	
Company	:	Zep Inc.	
Address	:	350 Joe Frank Harris Parkway, SI Emerson, GA 30137	E
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

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 compressed gas
Colour	clear
Odour	solvent-like

GHS Classification

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

GHS label elements

sion 5.1	Revision Date 06/22/2020	Print Date 07/13/20
Hazard pictograms		
	Flame Gas cylinder Health	hazard Exclamation mark
Signal word	: Danger	indix
Hazard statements	 H222 Extremely flammable aero H280 Contains gas under press H304 May be fatal if swallowed H315 Causes skin irritation. H319 Causes serious eye irritat H336 May cause drowsiness or H370 Causes damage to organ 	sure; may explode if heated. and enters airways. tion. r dizziness.
Precautionary statements	 Prevention: P210 Keep away from heat/spa No smoking. P211 Do not spray on an open P251 Pressurized container: Do use. P260 Do not breathe dust/fume P264 Wash skin thoroughly afte P270 Do not eat, drink or smok P271 Use only outdoors or in a P280 Wear protective gloves/ e Response: P301 + P310 IF SWALLOWED CENTER/doctor. P302 + P352 IF ON SKIN: Was P304 + P340 + P312 IF INHALE and keep comfortable for breath CENTER/doctor if you feel unw P305 + P351 + P338 IF IN EYE for several minutes. Remove co easy to do. Continue rinsing. P307 + P311 IF exposed: Call a physician. P331 Do NOT induce vomiting. P332 + P313 If skin irritation oc attention. P337 + P313 If eye irritation pe attention. P362 Take off contaminated clo Storage: P410 + P412 Protect from sunii temperatures exceeding 50 °C/ P403 Store in a well-ventilated Disposal: P501 Dispose of contents/conta- regulation. 	flame or other ignition source o not pierce or burn, even aft e/ gas/ mist/ vapours/ spray. er handling. well-ventilated area. eye protection/ face protection b: Immediately call a POISON sh with plenty of soap and wa ED: Remove person to fresh hing. Call a POISON rell. ES: Rinse cautiously with wat ontact lenses, if present and a POISON CENTER or docto ccurs: Get medical advice/ ersists: Get medical advice/ othing and wash before reuse ight. Do not expose to ' 122 °F. place.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Version 5.1

Revision Date 06/22/2020

Print Date 07/13/2022

Hazardous components

Chemical name	CAS-No.	Concentration [%]
acetone	67-64-1	>= 50 - < 70
Naphtha (petroleum), hydrotreated light	64742-49-0	>= 30 - < 50
carbon dioxide	124-38-9	>= 5 - < 10
methanol	67-56-1	>= 3 - < 5
heptane	142-82-5	>= 1 - < 3

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Get medical attention immediately.
lf inhaled	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
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.
		Effects are dependent on exposure (dose, concentration, contact time). Aspiration may cause pulmonary oedema and pneumonitis. Causes serious eye irritation. May cause drowsiness or dizziness. Review section 2 of SDS to see all potential hazards. May be fatal if swallowed and enters airways.

/ersion 5.1	Revision Date 06/22/2020	Print Date 07/13/2022
Notes to physician	: Treat symptomatically. Symptoms	may be delayed.
ECTION 5. FIREFIGHTING MEA	SURES	
Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical	
Unsuitable extinguishing media	: High volume water jet	
Specific hazards during firefighting	: Do not allow run-off from fire fightin courses.	ng to enter drains or water
Hazardous combustion products	: Carbon dioxide (CO2) Carbon monoxide Smoke	
Specific extinguishing methods	: Use extinguishing measures that a circumstances and the surrounding	

: Collect contaminated fire extinguishing water separately. This

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

Use a water spray to cool fully closed containers.

: Wear self-contained breathing apparatus for firefighting if

Fire residues and contaminated fire extinguishing water must

must not be discharged into drains.

separately in closed containments.

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Further information

for firefighters

Special protective equipment

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	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Version 5.1

Revision Date 06/22/2020

Print Date 07/13/2022

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Do not breathe vapours or spray mist. 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. Always replace cap after use.
Conditions for safe storage	 BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. No smoking. Keep in a dry, cool and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
acetone	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
		STEL	750 ppm 1,780 mg/m3	CAL PEL
		С	3,000 ppm	CAL PEL
		PEL	500 ppm 1,200 mg/m3	CAL PEL
carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m3	NIOSH REL
		ST	30,000 ppm 54,000 mg/m3	NIOSH REL

Version 5.1

Revision Date 06/22/2020

Print Date 07/13/2022

1	1	1	1	
		TWA	5,000 ppm	OSHA Z-1
			9,000 mg/m3	
		TWA	10,000 ppm	OSHA P0
			18,000 mg/m3	
		STEL	30,000 ppm	OSHA P0
			54,000 mg/m3	
		PEL	5,000 ppm	CAL PEL
			9,000 mg/m3	
		STEL	30,000 ppm	CAL PEL
			54,000 mg/m3	
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm	NIOSH REL
			260 mg/m3	
		ST	250 ppm	NIOSH REL
		01	325 mg/m3	
		TWA	200 ppm	OSHA Z-1
			260 ppm 260 mg/m3	0311A 2-1
		STEL	250 ppm	OSHA P0
		SILL		USHA FU
		TWA	325 mg/m3	OSHA P0
		IVVA	200 ppm	USHA PU
			260 mg/m3	
		C	1,000 ppm	CAL PEL
		PEL	200 ppm	CAL PEL
			260 mg/m3	
		STEL	250 ppm	CAL PEL
			325 mg/m3	
heptane	142-82-5	TWA	85 ppm	NIOSH REL
			350 mg/m3	
		С	440 ppm	NIOSH REL
			1,800 mg/m3	
		TWA	500 ppm	OSHA Z-1
			2,000 mg/m3	
		TWA	400 ppm	OSHA P0
			1,600 mg/m3	
		STEL	500 ppm	OSHA P0
			2,000 mg/m3	
		PEL	400 ppm	CAL PEL
			1,600 mg/m3	
		STEL	500 ppm	CAL PEL
			2,000 mg/m3	
		TWA	400 ppm	ACGIH
				ACGIH
		STEL	500 ppm	ACGIH

Biological occupational exposure limits

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
2-PROPANONE	67-64-1	Acetone	Urine	End of shift (As	25 mg/l	ACGIH BEI
				soon as possible after		
				exposure ceases)		
Methanol	67-56-1	Methanol	Urine	End of shift (As	15 mg/l	ACGIH BEI

sion 5.1	Revision Date 06/22/2020	Print Date 07/13/2022
	ex	oon as ossible after posure eases)
Engineering measures	: effective ventilation in all process	ing areas
Personal protective equipm	ent	
Respiratory protection	: Use respiratory protection unless ventilation is provided or exposur that exposures are within recomn	e assessment demonstrates
Hand protection Material Remarks	Protective glovesThe suitability for a specific workp with the producers of the protection	
Eye protection	: Safety goggles Access to clean water to rinse ey include: eye wash stations or sho with pure water.	
Skin and body protection	: Impervious clothing Choose body protection accordin concentration of the dangerous s	
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and a	at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aerosol containing a compressed gas
Colour	:	clear
Odour	:	solvent-like
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
Flammability (solid, gas, liquid)	:	Extremely flammable aerosol.
Upper explosion limit	:	No data available

Version 5.1	Revision Date 06/22/2020	Print Date 07/13/2022
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Density	: 0.728 g/cm3	
Solubility(ies)		
Water solubility	: slightly soluble	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: not determined	
Thermal decomposition	: No data available	
Viscosity		
Viscosity, kinematic	: No data available	
Heat of combustion	: 34.35 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	: Strong oxidizing agents
Hazardous decomposition products	: Carbon oxides

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).

Version 5.1	Revision Date 06/22/2020	Print Date 07/13/2022
	Aspiration may cause pulmonary of Causes serious eye irritation. May cause drowsiness or dizzines Review section 2 of SDS to see a May be fatal if swallowed and enter Treat symptomatically. Symptoms	ss. Il potential hazards. ers airways.
Carcinogenicity:		
IARC	No component of this product presen equal to 0.1% is identified as probabl human carcinogen by IARC.	
ACGIH	No component of this product present equal to 0.1% is identified as a carcin	
OSHA	carcinogen by ACGIH. No component of this product presen	
NTP	equal to 0.1% is on OSHA's list of real No component of this product presen equal to 0.1% is identified as a know by NTP.	t at levels greater than or
Acute toxicity		
Product:		
Acute oral toxicity	: Acute toxicity estimate : 2,632 mg Method: Calculation method	/kg
Acute inhalation toxicity	: Acute toxicity estimate : 13.16 mg Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method	/1
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 n Method: Calculation method	ng/kg
Components:		
acetone: Acute oral toxicity	: LD50 Rat: 5,800 mg/kg	
Acute inhalation toxicity	: LC50 Rat: 132 mg/l Exposure time: 3 h	
	LC50 Rat: 50.1 mg/l	
Acute dermal toxicity	: LD50 Guinea pig: > 7,426 mg/kg	
	LD50 Rabbit: > 7,426 mg/kg	
heptane: Acute inhalation toxicity	: LC50 Rat: 103 mg/l Exposure time: 4 h	

Version 5.1

Revision Date 06/22/2020

Print Date 07/13/2022

Skin corrosion/irritation

Product:

Remarks: Irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks: Severe eye irritation

Respiratory or skin sensitisation

No data available

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

Product:

May be fatal if swallowed and enters airways.

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

Version 5.1	Revision Date 06/22/2020	Print Date 07/13/2022
No data available Bioaccumulative potential		
Product:		
Partition coefficient: n- octanol/water <u>Components:</u> methanol :	: Remarks: No data available	
Partition coefficient: n- octanol/water heptane :	: log Pow: -0.77	
Partition coefficient: n- octanol/water	: log Pow: 5	
Mobility in soil		
No data available		
Other adverse effects		
No data available Product:		
Regulation	40 CFR Protection of Environme Stratospheric Ozone - CAA Sect Substances	
Remarks	This product neither contains, no with a Class I or Class II ODS as Clean Air Act Section 602 (40 CI + B).	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

Version 5.1

Revision Date 06/22/2020

Print Date 07/13/2022

Transportation Regulation: IMDG (Vessel): UN1950, AEROSOLS, FLAMMABLE, 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 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)
acetone	67-64-1	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	 Flammable (gases, aerosols, liquids, or solids) Gases under pressure Skin corrosion or irritation Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposu Aspiration hazard)
SARA 302	No chemicals in this material are subj requirements of SARA Title III, Sectio		
SARA 313	The following components are subject established by SARA Title III, Section methanol		3.8 %

Version 5.1

Revision Date 06/22/2020

Print Date 07/13/2022

California Prop. 65



WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

DSLAll components of this product are on the Canadian DSLTSCAOn 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

Version 5.1

Revision Date 06/22/2020

Print Date 07/13/2022

Further information

NFPA:



0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

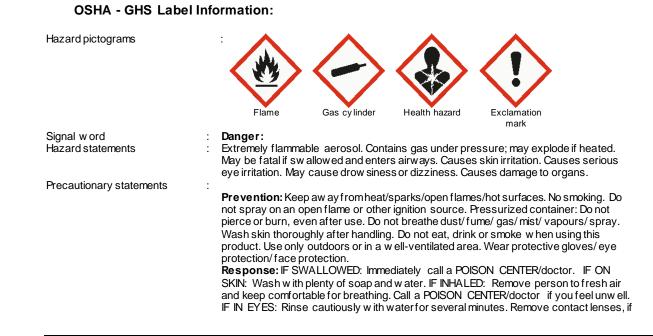
4 = Extreme

HMIS III:

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	2

0 = not significant, 1 =Slight,

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



Version 5.1

Revision Date 06/22/2020

Print Date 07/13/2022

present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place.

Disposal: Dispose of contents/container in accordance with local regulation.

Version:	5.1
Revision Date:	06/22/2020
Print Date:	07/13/2022

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