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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION					
SECTION 1. PRODUCT A	ND COMPANY IDENTIFICATION				

Material name	:	A02315 MST LV GENERAL PURPOSE ADH 20N12
Material number	:	0000000001049313
Manufacturer or supplier's	deta	ails
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 : Adhesive

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Aerosol containing a liquefied gas
Colour	light yellow
Odour	solvent-like

GHS Classification

Flammable aerosols Gases under pressure Skin irritation Eye irritation Reproductive toxicity Specific target organ toxicity - single exposure	 Category 1 Liquefied gas Category 2 Category 2A Category 2 Category 2 Category 3 (Central nervous system)
Specific target organ toxicity - repeated exposure (Inhalation)	: Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: H222 Extremely flammable aerosol.



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	H280 Contains gas under press H315 Causes skin irritation. H319 Causes serious eye irritat H336 May cause drowsiness of H361 Suspected of damaging f H373 May cause damage to org repeated exposure if inhaled.	tion. r dizziness. ertility or the unborn child.
Precautionary statements	 Prevention: P201 Obtain special instruction P202 Do not handle until all saf and understood. P210 Keep away from heat, hor and other ignition sources. No se P211 Do not spray on an open P251 Pressurized container: Do use. P260 Do not breathe dust/ fume P264 Wash skin thoroughly afte P271 Use only outdoors or in a P280 Wear protective gloves/ p protection/ face protection. Response: P302 + P352 IF ON SKIN: Was P304 + P340 + P312 IF INHALI 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. P308 + P313 IF exposed or cor attention. P337 + P313 If skin irritation oc attention. P362 Take off contaminated clo Storage: P403 + P233 Store in a well-ve tightly closed. P410 + P412 Protect from sunii temperatures exceeding 50 °C/ Disposal: P501 Dispose of contents/conta regulation. 	fety precautions have been re t surfaces, sparks, open flame smoking. flame or other ignition source o not pierce or burn, even afte e/ gas/ mist/ vapours/ spray. er handling. well-ventilated area. orotective clothing/ eye sh with plenty of soap and wat ED: Remove person to fresh a hing. Call a POISON rell. ES: Rinse cautiously with wate ontact lenses, if present and neerned: Get medical advice/ ccurs: Get medical advice/ rsists: Get medical advice/ othing and wash before reuse ntilated place. Keep containen ight. Do not expose to ' 122 °F.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
methyl acetate	79-20-9	>= 10 - < 20



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acetone	67-64-1	>= 10 - < 20	
propane	74-98-6	>= 10 - < 20	
Naphtha (petroleum), hydrotreated	l light 64742-49-0	>= 10 - < 20	
butane	106-97-8	>= 10 - < 20	
1,1-difluoroethane	75-37-6	>= 5 - < 10	
toluene	108-88-3	>= 3 - < 5	

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

SECTION 4. FIRST AID MEASURES

General advice	:	Do not leave the victim unattended. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
If inhaled	:	If symptoms persist, call a physician. Consult a physician after significant exposure.
In case of skin contact	:	If skin irritation persists, call a physician. Wash off with soap and water. Wash off immediately with plenty of water for at least 15 minutes. If on clothes, remove clothes.
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. Do not give milk or alcoholic beverages. 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. Take 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 may include central nervous system depression, resulting in headache, nausea and/or dizziness. Chronic effects are delayed and symptoms may not be observed during an exposure. Symptoms may differ depending on organs and systems affected. These effects generally are reflected in reduced function or change, which may include cramping, swelling, respiratory issues, and general pain. Effects are dependent on exposure (dose, concentration, contact time). Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure if inhaled.



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	Review section 2 of SDS to see al	l potential hazards.
Notes to physician	: Treat symptomatically. Symptoms	s may be delayed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Dry chemical Carbon dioxide (CO2) Alcohol-resistant foam
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon dioxide (CO2) Carbon monoxide Smoke Fluorocarbons Hydrogen fluoride
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	:	Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

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 further leakage or spillage if safe to do so. Prevent product from entering drains. 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



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container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Avoid exposure - obtain special instructions before use. For personal protection see section 8. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and nation regulations. Do not breathe vapours or spray mist. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work root Always replace cap after use. 	
Conditions for safe storage	BEWARE: Aerosol is pressurized. Keep away from direct exposure and temperatures over 50 °C. Do not open by fo or throw into fire even after use. Do not spray on flames of red-hot objects. Observe label precautions. No smoking. Electrical installations / working materials must comply with the technological safety standards. Keep tightly closed in a dry, cool and well-ventilated place	orce or th
Materials to avoid	Keep away from oxidizing agents and strongly acid or alka materials.	aline

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
methyl acetate	79-20-9	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 610 mg/m3	NIOSH REL
		ST	250 ppm 760 mg/m3	NIOSH REL
		TWA	200 ppm 610 mg/m3	OSHA Z-1
		TWA	200 ppm 610 mg/m3	OSHA P0
		STEL	250 ppm 760 mg/m3	OSHA P0
		PEL	200 ppm 610 mg/m3	CAL PEL
		STEL	250 ppm 760 mg/m3	CAL PEL



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acetone	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm	NIOSH REL
			590 mg/m3	
		TWA	1,000 ppm	OSHA Z-1
			2,400 mg/m3	
		TWA	750 ppm	OSHA P0
			1,800 mg/m3	
		STEL	1,000 ppm	OSHA P0
			2,400 mg/m3	
		STEL	750 ppm	CAL PEL
			1,780 mg/m3	
		С	3,000 ppm	CAL PEL
		PEL	500 ppm	CAL PEL
			1,200 mg/m3	
propane	74-98-6	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm	NIOSH REI
			1,800 mg/m3	
		TWA	1,000 ppm	OSHA Z-1
			1,800 mg/m3	
		TWA	1,000 ppm	OSHA P0
			1,800 mg/m3	
		PEL	1,000 ppm	CAL PEL
h	400.07.0		1,800 mg/m3	
butane	106-97-8	TWA	800 ppm	NIOSH REI
		TWA	1,900 mg/m3	OSHA P0
		IVVA	800 ppm 1,900 mg/m3	05HA PU
		PEL	800 ppm	CAL PEL
			1,900 mg/m3	
1,1-difluoroethane	75-37-6	TWA	1,000 ppm	US WEEL
toluene	108-88-3	TWA	20 ppm	ACGIH
	100 00 0	TWA	100 ppm	NIOSH REI
			375 mg/m3	
		ST	150 ppm	NIOSH REI
			560 mg/m3	
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm	OSHA P0
			375 mg/m3	
		STEL	150 ppm	OSHA P0
			560 mg/m3	
		PEL	10 ppm	CAL PEL
			37 mg/m3	
		С	500 ppm	CAL PEL
		STEL	150 ppm	CAL PEL
			560 mg/m3	

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 soon as	25 mg/l	ACGIH BEI



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				possible after exposure ceases)			
METHYLBENZENE	108-88-3	Toluene	In blood	Prior to last shift of workwee k	0.02 mg/l	ACGIH BE	
METHYLBENZENE		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BE	
METHYLBENZENE		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3.mg/g Creatinine	ACGIH BE	

Engineering measures	:	effective ventilation in all processing areas
Personal protective equipme	ent	
Respiratory protection	:	Use respiratory protection unless adequate local exhaust

	that exposures are within recommended exposure guidelines.
	Protective gloves The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke.

ventilation is provided or exposure assessment demonstrates

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Aerosol containing a liquefied gas
Colour	: light yellow



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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)	: Extremely flammable aerosol.	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Density	: Not applicable	
Solubility(ies)		
Water solubility	: Not applicable	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity		
Viscosity, kinematic	: No data available	
Heat of combustion	: 34.64 kJ/g	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials	: Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	: Hydrogen fluoride Fluorocarbons Carbon dioxide (CO2) Carbon monoxide



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SECTION 11. TOXICOLOGICAL INFORMATION

Aggravated Medical Condition	: None known.
Symptoms of Overexposure	 Effects are immediate and delayed. Symptoms may include irritation, redness, pain, and ras Symptoms may include central nervous system depress resulting in headache, nausea and/or dizziness. Chronic effects are delayed and symptoms may not be observed during an exposure. Symptoms may differ depending on organs and systems affected. These effects generally are reflected in reduce function or change, which may include cramping, swellir respiratory issues, and general pain. Effects are dependent on exposure (dose, concentratior contact time).
Carcinogenicity:	
IARC	No component of this product present at levels greater that equal to 0.1% is identified as probable, possible or confirm human carcinogen by IARC.
ACGIH	No component of this product present at levels greater that equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No component of this product present at levels greater that equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater that equal to 0.1% is identified as a known or anticipated carcin by NTP.

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
1,1-difluoroethane: Acute inhalation toxicity	: LC50 Mouse: 977,000 mg/l



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Exposure time: 2 h

Skin corrosion/irritation

Product:

Remarks: Irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks: Irritating to eyes.

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

No data available

Further information

Product:

Remarks: No data available

Components:

toluene: Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available Persistence and degradability



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No data available Bioaccumulative potential		
Product:		
Partition coefficient: n- octanol/water <u>Components:</u> butane :	: Remarks: No data available	
Partition coefficient: n- octanol/water toluene :	: Pow: 2.89	
Partition coefficient: n- octanol/water	: Pow: 2.73	
Mobility in soil		
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, no with a Class I or Class II ODS as Clean Air Act Section 602 (40 C + B).	s defined by the U.S.
Additional ecological information	: No data available	
<u>Components:</u> toluene :		
Additional ecological information	: No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Do not dispose of waste into sewer. 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.



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SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA): ORM-D, CONSUMER COMMODITY

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)
toluene	108-88-3	1000	*

*: 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
	Reproductive toxicity
	Specific target organ toxicity (single or repeated exposure)



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SARA 302		: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313	: The following components are subject to reporting levels established by SARA Title III, Section 313: toluene 108-88-3 3.3956 %		
California Prop. 65			
	WARNING: This product can expose you to chemicals including benzene, which is/are known to the State of California to cause cancer and 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:

DSL	This product contains one or several components that are not on the
	Canadian DSL nor NDSL.
TSCA	On TSCA Inventory

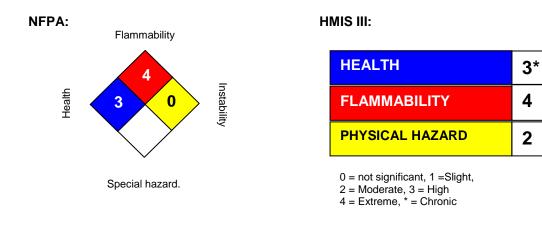
For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

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

SECTION 16. OTHER INFORMATION

Further information



OSHA - GHS Label Information:



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Hazard pictograms		
Signal word	: Danger:	•
Hazard statements	: Extremely flammable aerosol. Contains gas under pres Causes skin irritation. Causes serious eye irritation. Ma dizziness. Suspected of damaging fertility or the unborr organs through prolonged or repeated exposure if inhal	y cause drowsiness or child. May cause damage to
Precautionary statements	:	<u>.</u>
	 Prevention: Obtain special instructions before use. Do precautions have been read and understood. Keep awa sparks, open flames and other ignition sources. No smooth flame or other ignition source. Pressurized container: D use. Do not breathe dust/fume/gas/mist/vapours/spr handling. Use only outdoors or in a well-ventilated area protective clothing/ eye protection/face protection. Response: IF ON SKIN: Wash with plenty of soap and person to fresh air and keep comfortable for breathing. if you feel unwell. IF IN EYES: Rinse cautiously with wa contact lenses, if present and easy to do. Continue rins Get medical advice/ attention. If skin irritation occurs: G eye irritation persists: Get medical advice/ attention. Ta wash before reuse. Storage: Store in a well-ventilated place. Keep contains sunlight. Do not expose to temperatures exceeding 50 ° Disposal: Dispose of contents/container in accordance 	ay from heat, hot surfaces, bking. Do not spray on an open o not pierce or burn, even after ay. Wash skin thoroughly after . Wear protective gloves/ water. IF INHALED: Remove Call a POISON CENTER/doctor iter for several minutes. Remove ing. IF exposed or concerned: et medical advice/ attention. If ke off contaminated clothing and er tightly closed. Protect from °C/ 122 °F.

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