



Version 1.1

Revision Date 07/14/2016

Print Date 02/06/2018

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name	:	A00178 MST VANDALISM MRK RMVR 20net16
Material number	:	00000000001001632
Manufacturer or supplier's d	leta	ils
Company	:	Zep Inc.
Address	:	1310 Seaboard Industrial Blvd., NW Atlanta, GA 30318
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

: Specialty Cleaner and Remover

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Aerosol containing a liquefied gas
Colour	colourless
Odour	aromatic

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 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. H280 Contains gas under pressure; may explode if heated.



sion 1.1	Revision Date 07/14/2016	Print Date 02/06/201
	H315 Causes skin irritation.	
	H319 Causes serious eye irritation	
	H336 May cause drowsiness or diz	
	H361 Suspected of damaging fertil	
	H373 May cause damage to organ	
	repeated exposure if inhaled.	
Precautionary statements	: Prevention:	
	P201 Obtain special instructions be	efore use.
	P202 Do not handle until all safety and understood.	precautions have been re
	P210 Keep away from heat/sparks No smoking.	/open flames/hot surfaces
	P211 Do not spray on an open flar	no or other ignition source
	P251 Pressurized container: Do no	
	Use.	or preide or buill, even alle
	P260 Do not breathe dust/ fume/ g	as/mist/vapours/sprav
	P264 Wash skin thoroughly after h	
	P271 Use only outdoors or in a we	
	P280 Wear eye protection/ face pr	
	P280 Wear protective gloves.	
	P281 Use personal protective equi	pment as required.
	Response:	
	P302 + P352 IF ON SKIN: Wash w P304 + P340 + P312 IF INHALED: and keep at rest in a position comf POISON CENTER or doctor/ phys P305 + P351 + P338 IF IN EYES:	Remove victim to fresh a ortable for breathing. Call ician if you feel unwell.
	for several minutes. Remove conta easy to do. Continue rinsing.	
	P308 + P313 IF exposed or concer attention.	rned: Get medical advice/
	P332 + P313 If skin irritation occur	s: Get medical advice/
	attention. P337 + P313 If eye irritation persis	ts: Get medical advice/
	attention.	
	P362 Take off contaminated clothi	ng and wash before reuse
	Storage:	
	P403 + P233 Store in a well-ventila tightly closed.	ated place. Keep containe
	P405 Store locked up.	
	P410 + P412 Protect from sunlight temperatures exceeding 50 °C/ 12	
	Disposal:	,
	Dispose of contents/container in a	accordance with local
	regulation.	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
acetone	67-64-1	>= 50 - < 70
toluene	108-88-3	>= 10 - < 20



Revision Date 07/14/2016 Version 1.1 Print Date 02/06/2018 ı. ı

propane	74-98-6	>= 5 - < 10
2-butoxyethanol	111-76-2	>= 5 - < 10
butanone	78-93-3	>= 5 - < 10
butane	106-97-8	>= 5 - < 10
The exact percentages of disclose	ed substances are withheld as trade	socrats

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.
lf inhaled	:	Remove person to fresh air. If signs/symptoms continue, get medical attention.
In case of skin contact	:	In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops or persists.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO2) Foam Dry chemical Water
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	Carbon dioxide (CO2) Carbon monoxide Smoke
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	:	Use a water spray to cool fully closed containers. Standard procedure for chemical fires.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.



Version 1.1

Revision Date 07/14/2016

Print Date 02/06/2018

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. Do not breathe vapours or spray mist. 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. Observe label precautions. Keep in a cool, well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: Strong oxidizing agents Do not store near acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis
------------	---------	-------------------------------------	--	-------



Version 1.1

Revision Date 07/14/2016

Print Date 02/06/2018

			concentration	
acetone	67-64-1	TWA	500 ppm	ACGIH
		STEL	750 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	
toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm	NIOSH REL
			375 mg/m3	
		ST	150 ppm	NIOSH REL
			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	
propane	74-98-6	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm	NIOSH REL
			1,800 mg/m3	
		TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 mg/ms	OSHA P0
		IVVA	1,800 mg/m3	USHA FU
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
	111702	TWA	5 ppm	NIOSH REL
		10073	24 mg/m3	
		TWA	50 ppm	OSHA Z-1
			240 mg/m3	001#121
		TWA	25 ppm	OSHA P0
			120 mg/m3	
butanone	78-93-3	TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm	NIOSH REL
			590 mg/m3	
		ST	300 ppm	NIOSH REL
			885 mg/m3	
		TWA	200 ppm	OSHA Z-1
			590 mg/m3	
		TWA	200 ppm	OSHA P0
			590 mg/m3	
		STEL	300 ppm	OSHA P0
			885 mg/m3	
butane	106-97-8	TWA	800 ppm	NIOSH REL
			1,900 mg/m3	
		TWA	800 ppm	OSHA P0
	1		1,900 mg/m3	

Biological occupational exposure limits



Version 1.1

Revision Date 07/14/2016

Print Date 02/06/2018

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
Component	OAO NO.	parameters	specimen	time	concentration	Dasis
2-PROPANONE	67-64-1	Acetone	Urine	End of shift (As soon as possible after	50 mg/l	ACGIH BEI
	400.00.0	Taluara	ha hila a d	exposure ceases)	0.00	
METHYLBENZENE	108-88-3	Toluene	In blood	Prior to last shift of workwee k	0.02 mg/l	ACGIH BEI
METHYLBENZENE		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
METHYLBENZENE		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g	ACGIH BEI
Remarks: Creatinine				-		
2-BUTOXYE THANOL	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g	ACGIH BEI
Remarks: Creatinine	70.00.0					
2-BUTANONE	78-93-3	methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ACGIH BEI

Engineering measures : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment. Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Hand protection Remarks	:	The suitability for a specific workplace should be discussed



Version 1.1	Revision Date 07/14/2016	Print Date 02/06/2018
	with the producers of the protective	gloves.
Eye protection	: Safety glasses Ensure that eyewash stations and the workstation location.	safety showers are close to
Skin and body protection	: Impervious clothing Choose body protection according concentration of the dangerous sub	
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at	the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aerosol containing a liquefied gas
Colour	:	colourless
Odour	:	aromatic
Odour Threshold	:	No data available
рН	:	No data available
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
Upper explosion limit Lower explosion limit	:	No data available No data available
	::	No data available
Lower explosion limit	::	No data available
Lower explosion limit Vapour pressure	::	No data available No data available
Lower explosion limit Vapour pressure Relative vapour density	: : :	No data available No data available No data available
Lower explosion limit Vapour pressure Relative vapour density Density	: : : :	No data available No data available No data available 0.810 g/cm3
Lower explosion limit Vapour pressure Relative vapour density Density Solubility(ies)	:	No data available No data available No data available 0.810 g/cm3
Lower explosion limit Vapour pressure Relative vapour density Density Solubility(ies) Water solubility Partition coefficient: n-	:	No data available No data available No data available 0.810 g/cm3 partly soluble
Lower explosion limit Vapour pressure Relative vapour density Density Solubility(ies) Water solubility Partition coefficient: n- octanol/water	:	No data available No data available No data available 0.810 g/cm3 partly soluble No data available



Version 1.1

Revision Date 07/14/2016

Print Date 02/06/2018

ZepInc

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 (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

-				
റം	rcinc	ann	icity:	
Ja		ueii	IICILV.	

ouromogementy.	
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.
ACGIH	Confirmed animal carcinogen with unknown relevance to humans
OSHA	2-butoxyethanol 111-76-2 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	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 : 4,978 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Components:	

SAFETY DATA SHEET



sion 1.1	Revision Date 07/14/2016	Print Date 02/06/20
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	
propane: Acute inhalation toxicity	: LC50 Mouse: 1,237 mg/l Exposure time: 2 h	
	LC50 Rat: 658 mg/l Exposure time: 4 h	
	LC50 Rat: 1,355 mg/l	
butanone: Acute oral toxicity	: LD50 Oral Rat: 2,737 mg/kg	
Acute inhalation toxicity	: LC50 Mouse: 32,000 mg/l Exposure time: 4 h	
	LC50 : 38,000 mg/l	
Acute dermal toxicity	: LD50 Dermal Rabbit: 6,480 mg/kg	
butane: Acute inhalation toxicity	: LC50 Mouse: 1,237 mg/l Exposure time: 2 h	
	LC50 Rat: 1,355 mg/l	
n corrosion/irritation		
Product:		

Zepinc

Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product:

Remarks: Eye irritation

Respiratory or skin sensitisation

No data available



Version 1.1

Revision Date 07/14/2016

Print Date 02/06/2018

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

acetone: toluene: propane: 2-butoxyethanol: butanone: butane:

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.

Components:

toluene: Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available Bioaccumulative potential

Product:

Partition coefficient: n- : Remarks: No data available octanol/water <u>Components:</u> toluene :



Version 1.1	Revision Date 07/14/2016	Print Date 02/06/2018
Partition coefficient: n- octanol/water butanone :	: Pow: 2.73	
Partition coefficient: n- octanol/water butane :	: log Pow: 0.29	
Partition coefficient: n- octanol/water	: Pow: 2.89	
Mobility in soil		
No data available		
Other adverse effects		
No data available Product:		
Regulation	40 CFR Protection of Environmer Stratospheric Ozone - CAA Secti Substances	
Remarks	This product neither contains, no with a Class I or Class II ODS as Clean Air Act Section 602 (40 CF + B).	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.

SECTION 14. TRANSPORT INFORMATION

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



Version 1.1

Revision Date 07/14/2016

Print Date 02/06/2018

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

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	: Sudden Release of Pressure Hazard Acute Health Hazard Chronic Health Hazard Fire Hazard			
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 17 %	%		
California Prop 65	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.			
toluene	108-88-3			
The components of this product are reported in the following inventories:				
TSCA	SCA Inventory			



Version 1.1

Revision Date 07/14/2016

Print Date 02/06/2018

DSL All components of this product are on the Canadian DSL

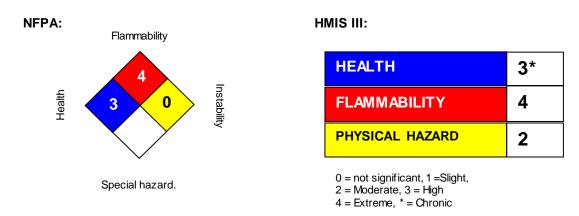
For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

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

SECTION 16. OTHER INFORMATION

Further information



OSHA - GHS Label Information:

Hazard pictograms	
Signal w ord	: Danger:
Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. 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.
Precautionary statements	 Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep aw ay fromheat/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. Do not breathe dust/ fume/ gas/mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a w ell-ventilated area. Wear eye protection/ face protection. Wear protective gloves. Use personal protective equipment as required. Response: IF ON SKIN: Wash with plenty of soap and w ater. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unw ell. IF IN EYES: Rinse cautiously with w ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and w ash before reuse. Stor age: Store in a w ell-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Disposal: Dispose of contents/container in accordance with local regulation.



Version 1.1

Revision Date 07/14/2016

Print Date 02/06/2018

Version:	1.1
Revision Date:	07/14/2016
Print Date:	02/06/2018

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®,Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®,Rexodan®, Mykal™, and a number of private labeled brands.