



SAFETY DATA SHEET

Date issued: 02/16/2015

MONTANA[®] EZ317 2K URETHANE CLEAR

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Code EZ317 **Product Name** 2K URETHANE CLEAR
Recommended use A paint or paint constituent product

UNITED STATES OF AMERICA
Manufacturer
Company Name ChemSpec USA, Inc.
Address 9287 Smucker Road
Orrville, Ohio
44667

Telephone 1 330 669 8512
Facsimile 1 330 669 3965

Emergency Contact
Contact Name CHEMTREC
Contact number 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Overall Nature HAZARDOUS MIXTURE, DANGEROUS GOODS

Classification reference SANS10234 (1272/2008/EC) :

Classification of the substance or mixture

- (H225) Flammable liquids, Hazard Category 2
- (H332) Acute toxicity (inhalation), Hazard Category 4
- (H315) Skin corrosion/irritation, Hazard Category 2
- (H319) Serious eye damage/eye irritation, Hazard Category 2
- (H317) Sensitization ^ Skin, Hazard Category 1
- (H335) Specific target organ toxicity ^ Single exposure, Hazard Category 3, Respiratory tract irritation
- (H402) Hazardous to the aquatic environment ^ Acute Hazard, Category 2
- (H412) Hazardous to the aquatic environment ^ Chronic Hazard, Category 3

GHS label elements, including precautionary statements

Signal word **Danger**

Pictograms



Hazard and Precautionary Statements

Hazard Statements

- Highly flammable liquid and vapor
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation
- May cause an allergic skin reaction
- May cause respiratory irritation
- Toxic to aquatic life
- Harmful to aquatic life with long lasting effects

Precautionary Statements

Prevention Statements

- Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment. – if the explosive is electrostatically sensitive.
- Use explosion-proof electrical/ventilating/lighting/.../ equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wash ... thoroughly after handling.

Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment. – if this is not the intended use.
Wear protective gloves/protective clothing/eye protection/face protection.

Response Statements

IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment (see ... on this label). ... Reference to supplemental first aid instruction.
If skin irritation occurs: Get medical advice/ attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Wash contaminated clothing before reuse.
In case of fire: Use powder/... for extinction.

Storage Statements

Store in a well-ventilated place. Keep container tightly closed. – if product is volatile so as to generate hazardous atmosphere.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal Statements

Dispose of contents/container in accordance with local/regional/ national/international regulations in accordance with local/regional/ national/international regulation

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product type : Mixture **Generic name :** PAINT or PAINT RELATED MATERIAL
CAS No. : Not applicable **EU Index No :** Not applicable **UN No :** Not applicable

HAZARDOUS AND/OR OTHER RELEVANT COMPONENTS

Name	% m/m	EC Labels	CAS Number	EC Index
n-BUTYL ACETATE	5-10 %		123-86-4	607-025-00-1
2-METHOXY-1-METHYLETHYL ACETATE	<20 %	-	108-65-6	607-195-00-7
5-METHYLHEXAN-2-ONE	<25 %	- Xn	110-12-3	606-026-00-4
BUTANONE	<20 %	F Xi	78-93-3	606-002-00-3
XYLENE	<12.5 %	Xn	1330-20-7	601-022-00-9
ACETONE	<20 %	F Xi	67-64-1	606-001-00-8
AROMATIC HYDROCARBON SOLVENT	<20 %	Xn		o
o-DICHLOROBENZENE	<5 %	Xn N	95-50-1	602-034-00-7

Classification reference SANS10234 (1272/2008/EC) :

EC Index	Classification Hazard Code
607-025-00-1	Flam. Liq. 3;STOT SE 3 H226;H336
607-195-00-7	Flam. Liq. 3 H226
606-026-00-4	Flam. Liq. 3;Acute Tox. 4 H226;H332
606-002-00-3	Flam. Liq. 2;Eye Irrit. 2;STOT SE 3 H225;H319;H336
601-022-00-9	Flam. Liq. 3;Acute Tox. 4 ;Acute Tox. 4 ;Skin Irrit. 2 H226;H332;H312;H315
606-001-00-8	Flam. Liq. 2;Eye Irrit. 2;STOT SE 3 H225;H319;H336
	o not found in T31
602-034-00-7	Acute Tox. 4 ;Eye Irrit. 2;STOT SE 3;Skin Irrit. 2;Aquatic Acute 1;Aquatic Chronic 1 H302;H319;H335;H315;H400;H410

SECTION 4. FIRST AID MEASURES

Inhalation Move to fresh air. In case of discomfort seek medical attention.
Skin Use hand cleaner/soap & water. Remove contaminated clothing. If any discomfort get medical attention
Eyes Rinse immediately with plenty of water. Seek medical advice if symptoms persist.
Ingestion Wash mouth with plenty of water. Do NOT induce vomiting. Seek medical advice.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media :

Specific hazards arising from the chemical :

No direct explosion hazard expected.
Dried residues - combustible with toxic fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Contain & collect. Keep out of drains and sewers
Wear protective equipment (see Section 8). Keep unprotected persons away.
Do not allow product to reach sewage system or any water course.
Remove ignition sources and provide sufficient ventilation

SECTION 7. HANDLING AND STORAGE

Storage :

Store separately from any reactive substances - oxidizers in particular.

Handling :

Ensure good ventilation/exhaustion at the workplace

Do not spray on a naked flame or any incandescent material
 Eating, drinking and smoking in work areas is prohibited
 Wash hands after use
 Remove contaminated clothing and protective equipment before entering eating areas

Inhalation In case of insufficient ventilation, use suitable respiratory protection.
Skin Use barrier cream and impervious gloves.
Eyes Use face shield & goggles or full face respirator/hood. Avoid direct contact.
Ingestion Observe the rules of hygiene. Wash before eating, drinking or smoking.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS AND/OR OTHER RELEVANT COMPONENTS

Name	CAS Number	TWA OEL (mg/m3)	TWA OEL (ppm)	STOEL (mg/m3)	STOEL (ppm)	OEL Type	Vap.Press. (mmHg)
2K URETHANE CLEAR	Not applicable						
Components :							
n-BUTYL ACETATE	123-86-4	710.	150.	950	200	RL	8.7
2-METHOXY-1-METHYLETHYL ACETATE	108-65-6						
5-METHYLHEXAN-2-ONE	110-12-3	240.	50.	360	75	RL	
BUTANONE	78-93-3	590.	200.	885	300	RL+	105
XYLENE	1330-20-7	435	100	650.	150.	RL+ S	6.7
ACETONE	67-64-1	1780	750	3560	1500	RL	181
o-DICHLOROBENZENE	95-50-1	300	50	300	50	RL	

(CL/RL = Controlled/Recommended level 'S' = Skin annotation)

OEL Type : Mixture

Maintain air concentrations below occupational exposure standards, using engineering controls as necessary
 Appropriate hand protection and protective clothing must always be used
 Keep away from foodstuffs, beverages and feed
 Wash hands before breaks and at the end of work

Paint Type Mixture of synthetic resins, pigments and solvents
General PPE Requirements For Mixing, Brush Application, Roller Application, Pouring, etc.

Personal protective equipment :

Skin PPE : Overall and impervious gloves (e.g. nitrile rubber)

Respiratory PPE : Air purifying respirator (e.g. cartridge type)

Eye PPE : Face shield or solvent resistant goggles

HMIS Rating (USA) 2 - 0 - 0 - I (Health-Flam-Reactivity-PPE)
SAPMA Rating 2-H-E PPE : Gloves, Respirator and Eye protection



SPRAY BOOTH

Spray booth Type Spray booth complying with National Standards
Skin PPE Nitrile Gloves
Eyes PPE Face shield or solvent resistant goggles
Respiratory Protection Air supplied full face piece or head covering respirator suitable for organic vapors/particulates

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Water based emulsion
Odor	Slight
pH	6-8
Boiling point	>100°C
Melting point	not available
Flash point	n/a°C
Explosive prop	not available
Oxidizing prop	not available
Vapor pressure	not available
Density	not available
Water solubility	miscible
Fat solubility	Oil : insoluble
Partition coefficient	not available
Viscosity	not available
Vapor density	not available
Evaporation rate	not available
Auto ignition temperature	not available
L.E.L.	not available
U.E.L.	not available
% non volatile	not available

Regulatory VOC 4.49 lbs./gal (538 g/L)
Actual VOC 4.06 lbs./gal (487 g/L)

SECTION 10. STABILITY AND REACTIVITY

Stable under normal conditions
No reaction with fire-fighting water

SECTION 11. TOXICOLOGICAL INFORMATION

Name	CAS Number	LD50 Oral mg/kg	LD50 Skin mg/kg	LC50 Inhal(gas) ppmV	LC50 Inhal(mist) mg/ltr
2K URETHANE CLEAR	Not applicable	>500			
Components :					
n-BUTYL ACETATE	123-86-4	14000 mg (Rat)	>5000 mg (Rabbit)		
2-METHOXY-1-METHYLETHYL ACETATE	108-65-6				
5-METHYLHEXAN-2-ONE	110-12-3				
BUTANONE	78-93-3	3400 mg (Rat)	13000 mg (Rabbit)		
XYLENE	1330-20-7	4300 mg (Rat)	5000 mg (Rabbit)		
ACETONE	67-64-1	9750 mg (Rat)			
o-DICHLOROBENZENE	95-50-1	<500			
Inhalation	Irritating, narcotic.				
Skin	Irritating, risk of dermatitis.				
Eyes	Irritating.				
Ingestion	Irritating.				

SECTION 12. ECOLOGICAL INFORMATION

May have short term environmental effects. Contain, monitor & remove
Aquatic toxicity : No further relevant information available
Persistence and degradability : No further relevant information available.
Bioaccumulative potential : No further relevant information available.
Mobility in soil : No further relevant information available.

Available ecological data of ingredients :

Name	CAS Number	Aquatic Toxicity
XYLENE	1330-20-7	LC50 (goldfish) = 13 mg/L; 24 hr LC50 (rainbow trout) = 13.5 mg/L; 96 h EC50 Daphnia magna 3.82 mg/L, 48 h
o-DICHLOROBENZENE	95-50-1	LC50 (guppy) = 5.9 mg/L; 14 d LC50 (P.prom, F.min)=57 mg/L;96 h EC50 Daphnia magna 68 mg/L, 48 h EC50 (Algae) 14mg/L; 48h

SECTION 13. DISPOSAL INFORMATION

Use reputable waste disposal contractors. Exercise caution in disposal of used containers.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

SECTION 14. TRANSPORT INFORMATION

UN Number Not applicable Not classified as dangerous for transport
USA (DOT) Not applicable Not classified as dangerous for transport
CANADA (TDG) Not applicable Not classified as dangerous for transport



SECTION 15. REGULATORY INFORMATION

CANADIAN DSL INVENTORY Components are listed on inventory list
USA TSCA INVENTORY Components are listed on inventory list

Canada
WHMIS **B-2** : Flammable liquid with Flash Point lower than 37.8°C (100°F)
D-2B : Material causing other toxic effects

SECTION 16. OTHER INFORMATION

TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
IN CASE OF ANY DISCOMFORT ALWAYS SEEK MEDICAL ADVICE.
HMIS Rating (USA) : 2 - 0 - 0 - I (Health-Flam-Reactivity-PPE)

Hazard (H) phrases associated with components

H225 : Highly flammable liquid and vapor
H226 : Flammable liquid and vapor
H302 : Harmful if swallowed
H312 : Harmful in contact with skin
H315 : Causes skin irritation
H319 : Causes serious eye irritation
H332 : Harmful if inhaled
H335 : May cause respiratory irritation
H336 : May cause drowsiness or dizziness
H400 : Very toxic to aquatic life
H410 : Very toxic to aquatic life with long lasting effects

Abbreviations

Code : Abbreviation : Meaning

- : flammable

F : highly flammable

N : dangerous for the environment

Xi : irritant

Xn : harmful

==== : :

: : Associated pictogram code shown in brackets

H225 : Flam. Liq. 2 : (GHS02) Flammable liquids, Hazard Category 2

H226 : Flam. Liq. 3 : (GHS02) Flammable liquids, Hazard Category 3

H302 : Acute Tox. 4 : (GHS07) Acute toxicity (oral), Hazard Category 4

H312 : Acute Tox. 4 : (GHS07) Acute toxicity (dermal), Hazard Category 4

H315 : Skin Corr/Irrit. 2 : (GHS07) Skin corrosion/irritation, Hazard Category 2

H319 : Eye Dam/Irrit 2 : (GHS07) Serious eye damage/eye irritation, Hazard Category 2

H332 : Acute Tox. 4 : (GHS07) Acute toxicity (inhalation), Hazard Category 4

H335 : STOT SE 3 : (GHS07) Specific target organ toxicity ^ Single exposure, Hazard Category 3, Respiratory tract irritation

H336 : STOT SE 3 : (GHS07) Specific target organ toxicity ^ Single exposure, Hazard Category 3, Narcosis

H400 : Aquatic. Acute 1 : (GHS09) Hazardous to the aquatic environment ^ Acute Hazard, Category 1

H410 : Aquatic Chronic 1 : (GHS09) Hazardous to the aquatic environment ^ Chronic Hazard, Category 1

==== : :

: : %m/m : Percent by mass

: : ACGIH : American Conference of Governmental Industrial Hygienist

: : ATE : Acute Toxicity Estimate

: : CAS : Chemical Abstracts Service

: : CHIP : Chemicals (Hazard Information and Packaging for supply)

: : CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

: : CNS : Central Nervous System

: : DIN : Standard of the German Institute for Standardization

: : DOT : Department of Transport

: : EC : European Community

: : EC50 : Effective Concentration (Median) for 50% of the response under test

: : ECB : European Chemicals Bureau

: : ECHA : European Chemicals Agency, Helsinki (http://echa.europa.eu/home_en.asp)

: : EEC : European Economic Community

: : EINECS : European Inventory of Existing Chemical Substances

: : ELINCS : European List of Notified Chemical Substances

: : GHS : Globally Harmonized System of Classification and Labelling of Chemicals

: : HMIS : Hazardous Materials Information System (USA only)

: : IATA : International Air Transport Association

: : IMDG : International Maritime Dangerous Goods Code

: : IMO : International Maritime Organization

: : INS : Guidance on Identification and Naming of Substances under REACH, ECHA, 2007

: : ISO : International Standards Organization

: : L.E.L. : Lower explosive limit

: : LD50/LC50 : Median (50%) lethal dose/concentration

: : mg/m3 : Milligrams per cubic meter

: : MSDS : Material safety data sheet

: : n/a. : Not available

: : NC : No Classification

: : No : Number

: : OEL : Occupational exposure limit

: : OEL-CL : Occupational exposure limit - control limit

: : OEL-RL : Occupational exposure limit - recommended limit

: : OHS Act : Occupational Health and Safety Act

: : P statement : Precautionary statement

: : PEL : Permissible Exposure Limit

: : PPE : Personal protective equipment

: : ppm : Parts per million

: : REACH : Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals

: : RTDG : Regulations on the Transport of Dangerous Goods. Generic term that covers all modal transport regulations (ADR, RID, ADN, IMDG and ITDG)

: : SABS : South African Bureau of Standards

: : SANS : South African National Standards

: : SAPMA : South African Paint Manufacturers Association

: : SARA 313 : Toxic Release Inventory Reporting SRA Section 3

: : SDS : Safety Data Sheet

: : STOEL : Short-term occupational exposure limit

: : STOT-RE : Specific Target Organ Toxicity - Repeated Exposure

: : STOT-SE : Specific Target Organ Toxicity - Single Exposure

: : TDG : Transport of Dangerous Goods

: : TSCA : Toxic Substance Control Act (USA only)

: : TWA : Time weighted average

: : U.E.L. : Upper explosive limit

: : UN : United Nations

: : WHMIS : Workplace Hazardous Materials Information Systems (Canada only)

==== : :

This SDS conforms with General Administrative Regulations of 6 Sept.1996 (SANS11014:2010/ISO11014:2009)

OEL's derived from OHS Act Regulations for Dangerous Chemical Substances of 25 Aug.1995 (EH-42). All information is given in good faith but without guarantee in respect of accuracy. No responsibility is accepted for errors or omissions or the consequences thereof.

While all information is accurate to the best of our knowledge, we continue updating ALL SDS document formats in accordance with the most recent GHS mandated changes.

(Date of issue: 02/16/2015 Date of Revision: 07/20/2016)