Printing date 03/14/2018



1 Identification

- · Product identifier
- · Trade name: 50151 & 50154 World Class 2K Urethane Primer
- · Article number: 50151, 50154
- · Application of the substance / the mixture Coating
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SEM Products Inc.

1685 Overview Drive

Rock Hill, SC 29730

803 207 8225

· Information department:

cust_care@semproducts.com: SEM Products,Inc. 1685 Overview Dr. Rock Hill, SC 29730: phone 1-800-831-

1122, M - TH 7am - 4pm EDT

· Emergency telephone number: CHEMTREC 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS02

GHS07

- · Signal word Warning
- · Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

Ground/bond container and receiving equipment. P240

P241 *Use explosion-proof electrical/ventilating/lighting/equipment.*

P242 *Use only non-sparking tools.*

P243 Take precautionary measures against static discharge.

(Contd. on page 2)



Trade name: 50151 & 50154 World Class 2K Urethane Primer

(Contd. of page 1)

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see on this label).

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. P362+P364 P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.*

Store in a well-ventilated place. Keep cool. P403+P235

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mixture: consisting of the following components.

Weight percentages

· Dangerous	· Dangerous components:		
7727-43-7	barium sulphate, natural	30-40%	
1330-20-7	xylene	13-30%	
14807-96-6	Talc	≥ 7-<10%	
123-86-4	n-butyl acetate	≥ 7-<10%	
67-64-1		1.5-5%	
68911-87-5	montmorilontie clay complex	1.5-5%	
<i>78-93-3</i>	butanone	1-1.5%	

(Contd. on page 3)



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(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- $\cdot \textit{Environmental precautions:} \ \textit{Do not allow to enter sewers/surface or ground water.}$
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· <i>PAC-1</i> :		
7727-43-7	barium sulphate, natural	15 mg/m³
1330-20-7	xylene	130 ррт
123-86-4	n-butyl acetate	5 ppm
13463-67-7	titanium dioxide	30 mg/m^3
67-64-1	acetone	200 ррт
<i>78-93-3</i>	butanone	200 ppm
67-56-1	methanol	530 ppm
1333-86-4	Carbon black	$9 mg/m^3$
100-41-4	ethylbenzene	33 ppm
108-83-8	2,6-dimethylheptan-4-one	75 ppm

(Contd. on page 4)



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77 50 7	dibutulain dilaunata	(Contd. of page
	dibutyltin dilaurate	1.1 mg/m
	butanol	150 ppm
	Methyl glycol	30 mg/m
<i>PAC-2:</i>		
7727-43-7	barium sulphate, natural	170 mg/m^3
1330-20-7		920* ppm
	n-butyl acetate	200 ppm
13463-67-7	titanium dioxide	330 mg/m^3
67-64-1	acetone	3200* ppm
<i>78-93-3</i>	butanone	2700* ppm
67-56-1	methanol	2,100 ppm
1333-86-4	Carbon black	99 mg/m³
100-41-4	ethylbenzene	1100* ppm
108-83-8	2,6-dimethylheptan-4-one	330 ppm
77-58-7	dibutyltin dilaurate	$8 mg/m^3$
78-83-1	butanol	1,300 ppm
57-55-6	Methyl glycol	1,300 mg/m
<i>PAC-3:</i>		·
7727-43-7	barium sulphate, natural	$990 \ mg/m^3$
1330-20-7	xylene	2500* ppm
123-86-4	n-butyl acetate	3000* ppm
13463-67-7	titanium dioxide	2,000 mg/m
67-64-1	acetone	5700* ppm
<i>78-93-3</i>	butanone	4000* ppm
67-56-1	methanol	7200* ppm
1333-86-4	Carbon black	590 mg/m^3
100-41-4	ethylbenzene	1800* ppm
108-83-8	2,6-dimethylheptan-4-one	2000* ppm
77-58-7	dibutyltin dilaurate	48 mg/m³
78-83-1	butanol	8000* ppm
57-55-6	Methyl glycol	7,900 mg/m

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.

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- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

	7-43-7 barium sulphate, natural	
PEL	Long-term value: 15* 5** mg/m³	
	*total dust **respirable fraction	
REL	Long-term value: 10* 5** mg/m³	
	*total dust **respirable fraction	
TLV	Long-term value: 5* mg/m³	
	*inhalable fraction; E	
1330	0-20-7 xylene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 655 mg/m³, 150 ppm	
	Long-term value: 435 mg/m³, 100 ppm	
TLV	Short-term value: 651 mg/m³, 150 ppm	
	Long-term value: 434 mg/m³, 100 ppm	
	BEI	
123-	86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m³, 150 ppm	
REL	Long-term value: 950 mg/m³, 200 ppm	
TLV	Short-term value: 712 mg/m³, 150 ppm	
	Long-term value: 238 mg/m³, 50 ppm	
67-6·	4-1 acetone	
PEL	Long-term value: 2400 mg/m³, 1000 ppm	
REL	Long-term value: 590 mg/m³, 250 ppm	
TLV	Short-term value: 1187 mg/m³, 500 ppm	
	Long-term value: 594 mg/m³, 250 ppm	
	BEI	
78-9.	3-3 butanone	
PEL	Long-term value: 590 mg/m³, 200 ppm	
REL	Short-term value: 885 mg/m³, 300 ppm	
	Long-term value: 590 mg/m³, 200 ppm	
TLV	Short-term value: 885 mg/m³, 300 ppm	
	Long-term value: 590 mg/m³, 200 ppm	
	BEI	

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· Ingredients with biological limit values:

1330-20-7 xylene

BEI 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhippuric acids

67-64-1 acetone

BEI 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

78-93-3 butanone

BEI 2 mg/L

Medium: urine Time: end of shift Parameter: MEK

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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9 Physical and chemical properties

· Information	on basic	nhycical a	nd chamical	nronorties
mijormanon	on vasic	риумси и	na cnemica	properties

· General Information

· Appearance:

Form: Liquid

Color: According to product specification

Odor: CharacteristicOdor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 124 °C

· Flash point: 28 °C

· Flammability (solid, gaseous): Not applicable.

• Ignition temperature: 370 °C

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

• Danger of explosion: In use, may form flammable/explosive vapour-air mixture.

· Explosion limits:

Lower: 1.1 Vol %

 Upper: 7 Vol %

· Vapor pressure at 20 °C: 6.7 hPa

Density at 20 °C:
 Relative density
 Vapor density
 Evaporation rate
 1.61918 g/cm³
 Not determined.
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined.
Kinematic: Not determined.

· Solvent content:

Organic solvents: 30.3 % *VOC content:* 25.81 %

460.3 g/l / 3.84 lb/gl

Solids content: 69.6 %

· Other information No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

(Contd. on page 8)



Trade name: 50151 & 50154 World Class 2K Urethane Primer

(Contd. of page 7)

- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 value	es that are relevant for classification:
1330-20	-7 xyle	ne
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (Inter	· IARC (International Agency for Research on Cancer)		
1330-20-7		3	
14807-96-6	Talc	3	
13463-67-7	titanium dioxide	2B	
1333-86-4	Carbon black	2B	
100-41-4	ethylbenzene	2B	

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

68911-87-5 montmorilontie clay complex

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Trade name: 50151 & 50154 World Class 2K Urethane Primer

(Contd. of page 8)

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number DOT, ADR, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Acetone, Xylenes)
ADR	1993 Flammable liquids, n.o.s. (Acetone, Xylenes)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ACETONE, XYLENES)
Transport hazard class(es)	
DOT	
Class Label	3 Flammable liquids 3
ADR, IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
EMS Number:	F- E , S - E

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	(Contd. of page
· Transport in bulk according to Annex II	I of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
$\cdot DOT$	
· Quantity limitations	On passenger aircraft/rail: 60 L
- ,	On cargo aircraft only: 220 L
\cdot ADR	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
\cdot IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (ACETONE, XYLENES 3, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

None of the	ingredient is listed.
Section 313	(Specific toxic chemical listings):
7727-43-7	barium sulphate, natural
1330-20-7	xylene
	Acrylic Resin
14807-96-6	Talc
78-93-3	butanone
67-56-1	methanol
100-41-4	ethylbenzene
TSCA (Toxi	ic Substances Control Act):
7727-43-7	barium sulphate, natural
1330-20-7	xylene
14807-96-6	Talc
123-86-4	n-butyl acetate
13463-67-7	titanium dioxide
67-64-1	acetone
68911-87-5	montmorilontie clay complex
=0.00.0	butanone
78-93-3	

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		(Contd. of page
	Carbon black	
	OXIRANE,ME, POLYMER	
	ethylbenzene	
	YELLOW IRON OXIDE	
19549-80-5	4,6-dimethylheptan-2-one	
	2,6-dimethylheptan-4-one	
	dibutyltin dilaurate	
78-83-1	butanol	
57-55-6	Methyl glycol	
· Proposition	65	
· Chemicals l	known to cause cancer:	
1330-20-7	xylene	
13463-67-7	titanium dioxide	
1333-86-4	Carbon black	
100-41-4	ethylbenzene	
· Chemicals	known to cause reproductive toxicity for females:	
	ingredients is listed.	
	known to cause reproductive toxicity for males:	
	ingredients is listed.	
	<u> </u>	
	known to cause developmental toxicity:	
67-56-1 me		
	nity categories	
	conmental Protection Agency)	
	barium sulphate, natural	D, CBD(inh), NL(oral
1330-20-7	xylene	I
67-64-1		I
78-93-3	butanone	I
100-41-4	ethylbenzene	D
· TLV (Thres	shold Limit Value established by ACGIH)	
1330-20-7	xylene	A
14807-96-6		A
	titanium dioxide	A
13463-67-7		
	acetone	A
67-64-1		
67-64-1 1333-86-4	acetone Carbon black	A
67-64-1 1333-86-4 100-41-4	acetone	A A A A
67-64-1 1333-86-4 100-41-4 77-58-7	acetone Carbon black ethylbenzene dibutyltin dilaurate	A A
67-64-1 1333-86-4 100-41-4 77-58-7 · NIOSH-Ca	acetone Carbon black ethylbenzene	A A
67-64-1 1333-86-4 100-41-4 77-58-7 • NIOSH-Ca 13463-67-7	acetone Carbon black ethylbenzene dibutyltin dilaurate (National Institute for Occupational Safety and Health)	A A

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms





GHS02

- · Signal word Warning
- · Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see on this label).

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact:

602 682-5601

Rita Joiner (rjoiner@semproducts.com)

- · Date of preparation / last revision 03/14/2018 / 8
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

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ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A * Data compared to the previous version altered.