Printing date 04/01/2015 Reviewed on 04/01/2015

1 Identification

- · Product identifier
- · Trade name: M25(xx)3 Series Marine Vinyl Coat
- · Article number:

M25003, M25013, M25023, M25033, M25043, M25053, M25063, M25073, M25083, M25093, M25103, M25113, M25123, M25133, M25143, M25153, M25163, M25173, M25183, M25193, M25203, M25213, M25223, M25233, M25243

- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · 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 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

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- USA



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Trade name: M25(xx)3 Series Marine Vinyl Coat

(Contd. of page 1)

· Hazard pictograms









GHS04

GHS07

· **Signal word** Danger

· Hazard-determining components of labeling:

toluene

acetone

4-methylpentan-2-one

butanone

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

Suspected of damaging fertility or the unborn child. H361

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

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

P251 Pressurized container: Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray. P301+P310 *If swallowed: Immediately call a poison center/doctor.*

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

and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 1Fire = 4Reactivity = 3

· HMIS-ratings (scale 0 - 4)



Health = *1Fire = 4

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

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Trade name: M25(xx)3 Series Marine Vinyl Coat

· vPvB: Not applicable.

(Contd. of page 2)

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mixture: consisting of the following components.

Weight percentages

· Dangerous components:					
67-64-1	acetone	30 - 40%			
68476-86-8	68476-86-8 Petroleum gases, liquefied, sweetened				
108-88-3	toluene	10 -13%			
110-19-0	isobutyl acetate	1.5 - 5%			
108-10-1	4-methylpentan-2-one	1.5 - 5%			
78-93 <i>-3</i>	butanone	1.5 - 5%			
108-65-6	2-methoxy-1-methylethyl acetate	1-1.5%			
	2-(propyloxy)ethanol	1-1.5%			
13463-67-7	titanium dioxide	≤1%			
1333-86-4	Carbon black	≤1%			
67-56-1	methanol	≤1%			

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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, sand, extinguishing powder. Do not use water.
- · 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.

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6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires:

Do not spray on a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

 \cdot *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:

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

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REL	Long-term value: 590 mg/m³, 250 ppm	(Contd. of p
TLV	Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm	
ILV	Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm BEI	
108-88	R-3 toluene	
PEL	Long-term value: 200 ppm	
	Ceiling limit value: 300; 500* ppm	
	*10-min peak per 8-hr shift	
REL	Short-term value: 560 mg/m³, 150 ppm	
	Long-term value: 375 mg/m³, 100 ppm	
TLV	Long-term value: 75 mg/m³, 20 ppm BEI	
110-19	2-0 isobutyl acetate	
PEL	Long-term value: 700 mg/m³, 150 ppm	
REL	Long-term value: 700 mg/m³, 150 ppm	
TLV	Long-term value: 713 mg/m³, 150 ppm	
	0-1 4-methylpentan-2-one	
PEL	Long-term value: 410 mg/m³, 100 ppm	
REL	Short-term value: 300 mg/m³, 75 ppm	
· LDL	Long-term value: 205 mg/m ³ , 50 ppm	
TLV	Short-term value: 307 mg/m³, 75 ppm	
	Long-term value: 82 mg/m³, 20 ppm BEI	
78-93-	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	
	i-6 2-methoxy-1-methylethyl acetate	
	Long-term value: 50 ppm	
67-56-	1 methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm	
REL	Short-term value: 325 mg/m³, 250 ppm	
	Long-term value: 260 mg/m³, 200 ppm Skin	
TLV	Short-term value: 328 mg/m³, 250 ppm	
	Long-term value: 262 mg/m³, 200 ppm Skin; BEI	
Ingred	lients with biological limit values:	
	1 acetone	

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BEI 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

108-88-3 toluene

BEI 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

Parameter: Toluene

0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene

0.3 mg/g creatinine Medium: urine Time: end of shift

Parameter: o-Cresol with hydrolysis (background)

108-10-1 4-methylpentan-2-one

BEI 1 mg/L

Medium: urine Time: end of shift Parameter: MIBK

78-93-3 butanone

BEI 2 mg/L

Medium: urine Time: end of shift Parameter: MEK

67-56-1 methanol

BEI 15 mg/L

Medium: urine Time: end of shift

Parameter: Methanol (background, nonspecific)

- · 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.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

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

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(Contd. of page 6)

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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UPM	STORI	and	C	remical	nro	nortios
	Bucui	unu	$ \cup$ I	<i>iemicui</i>	טועי	Deliles

· Generai Injormation · Appearance:	
**	
Form:	Aerosol
Color:	According to product specification
· Odor:	Characteristic
· Odour threshold:	Not determined.

· Change in condition

· pH-value:

manal Information

Melting point/Melting range:Undetermined.Boiling point/Boiling range:55 °C

· Information on basic physical and chemical properties

Flash point: -103 °C
 Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 465 °C

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

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

Not determined.

· Explosion limits:

 Lower:
 1.2 Vol %

 Upper:
 13.0 Vol %

· Vapor pressure at 20 °C: 233 hPa

• Density at 20 °C: 0.81254 g/cm³

• **Density at 20 °C:** 0.81254 g/cm³ • **Relative density** Not determined.

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		(Contd. of page
· Vapour density	Not determined.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octano	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	90.1 %	
VOC content:	54.8 %	
	698.8 g/l / 5.83 lb/gl	
Solids content:	10.5 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity
- · 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/LC50 values that are relevant for classification:				
108-88-3 t	oluene			
Oral	LD50	5000 mg/kg (rat)		
Dermal	<i>LD50</i>	12124 mg/kg (rabbit)		
Inhalative	LC50/4 h	5320 mg/l (mouse)		

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · 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 (International Agency for Research on Cancer)					
108-88-3	toluene	3			
		(Contd. on page	e 9)		

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(Cont	d. of page 8)			
thylpentan-2-one	2B			
um dioxide	2B			
on black	2B			
n dioxide, chemically prepared	3			
e	3			
benzene	2B			
oxicology Program)				
lients is listed.				
oational Safety & Health Administration)				
None of the ingredients is listed.				
	hylpentan-2-one um dioxide on black on dioxide, chemically prepared energene xicology Program) ients is listed. ational Safety & Health Administration)			

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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 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.

· UN-Number		
· DOT, ADR, IMDG, IATA	UN1950	
· UN proper shipping name		
$\cdot DOT$	Aerosols, flammable	
$\cdot ADR$	1950 Aerosols	
\cdot IMDG	AEROSOLS	

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		(Contd. of page 9)
· IATA	AEROSOLS, flammable	
· Transport hazard class(es)		
$\cdot DOT$		
· Class · Label	2.1 2.1	
· ADR		
· Class	2 5F Gases	
· Label	2.1	
· IMDG, IATA		
· Class	2.1	
· Label	2.1	
· Packing group · DOT, ADR, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Warning: Gases	
· EMS Number:	F-D,S-U	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
· Transport/Additional information:		
· DOT · Quantity limitations	On passenger aircraft/rail: 75 kg	
guilling minimum to	On cargo aircraft only: 150 kg	
· ADR		
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity	
· IMDG		
· Limited quantities (LQ)	IL	
\cdot Excepted quantities (\widetilde{EQ})	Code: E0	
	Not permitted as Excepted Quantity	
		(Contd. on page 11)

-USA

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· UN ''Model Regulation'': UN1950, Aerosols, 2.1

15 Regulatory information · Safety, health and environmental regulations/legislation specific for the substance or mixture · Section 355 (extremely hazardous substances): None of the ingredient is listed. · Section 313 (Specific toxic chemical listings): 108-88-3 toluene ACRYLIC RESIN 108-10-1 4-methylpentan-2-one 78-93-3 butanone 67-56-1 methanol 1330-20-7 xylene 100-41-4 ethylbenzene · TSCA (Toxic Substances Control Act): 67-64-1 acetone 68476-86-8 Petroleum gases, liquefied, sweetened 108-88-3 toluene 110-19-0 isobutyl acetate 108-10-1 4-methylpentan-2-one 78-93-3 butanone 763-69-9 ethyl 3-ethoxypropionate 108-65-6 2-methoxy-1-methylethyl acetate 2807-30-9 2-(propyloxy)ethanol 13463-67-7 titanium dioxide 1333-86-4 Carbon black 51274-00-1 YELLOW IRON OXIDE 67-56-1 methanol 1332-37-2 Iron oxide 7631-86-9 silicon dioxide, chemically prepared · Proposition 65 · Chemicals known to cause cancer: 108-10-1 4-methylpentan-2-one 13463-67-7 titanium dioxide

100-41-4	ethylbenzene							
C1 · 1 1		1	. •	• • .	c	c	-	_

· Chemicals known to cause reproductive toxicity for females:

108-88-3 toluene

1330-20-7 xylene

1333-86-4 Carbon black

(Contd. on page 12)



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(Contd. of page 11) · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: 108-88-3 toluene 108-10-1 4-methylpentan-2-one 67-56-1 methanol · Cancerogenity categories · EPA (Environmental Protection Agency) 67-64-1 acetone 108-88-3 toluene II 108-10-1 4-methylpentan-2-one 78-93-3 butanone 1330-20-7 xylene 100-41-4 ethylbenzene D· TLV (Threshold Limit Value established by ACGIH) 67-64-1 acetone A4108-88-3 toluene A413463-67-7 titanium dioxide *A4* 1333-86-4 Carbon black *A4* 1330-20-7 xylene A4100-41-4 ethylbenzene *A3* · NIOSH-Ca (National Institute for Occupational Safety and Health) 13463-67-7 titanium dioxide 1333-86-4 Carbon black 67-56-1 methanol

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









GHS02 C

GHS04

GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

toluene

acetone

4-methylpentan-2-one

butanone

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

(Contd. on page 13)



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Trade name: M25(xx)3 Series Marine Vinyl Coat

(Contd. of page 12)

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

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

P251 Pressurized container: Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P301+P310 If swallowed: Immediately call a poison center/doctor.

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

and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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: Steve Gaver (sgaver@semproducts.com)
- · Date of preparation / last revision 04/01/2015 / 5
- · 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

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

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Carc. 2: Carcinogenicity, Hazard Category 2

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

* Data compared to the previous version altered.

USA