

Printing date 05/31/2016 Reviewed on 01/08/2016

1 Identification

- · Product identifier
- · Trade name: 39101 & 39104 TPO-Direct Bumper Coaters
- · Article number: 39101, 39104
- · 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. 2 H225 Highly flammable liquid and vapor.



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.



GHS07

Skin Irrit. 2 H315 Causes skin 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).
- · Hazard pictograms







GHS02

GHS07

GHS0

- · Signal word Danger
- · Hazard-determining components of labeling:

toluene

Carbon black

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cyclohexane

· Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

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

· Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves / eye protection / face protection.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

Take precautionary measures against static discharge. P243

Wash thoroughly after handling. P264

P271 Use only outdoors or in a well-ventilated area.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

shower.

P321 *Specific treatment (see on this label).*

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell. P308+P313 *IF exposed or concerned: Get medical advice/attention.* P332+P313 If skin irritation occurs: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell.

P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.* P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

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

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.

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· vPvB: Not applicable.

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3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mixture: consisting of the following components.

Weight percentages

· Dangerous	· Dangerous components:		
108-88-3	toluene	60 - 70%	
1333-86-4	Carbon black	5 - 7%	
110-19-0	isobutyl acetate	1.5 - 5%	
110-82-7	cyclohexane	1.5 - 5%	
	NJ TSRN: 8009285004 Polyester Plasticizer	1.5 - 5%	

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · 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.
- · 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

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

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:

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

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Dispose contaminated material as waste according to item 13.

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.

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.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· 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 remaining constituent has no known exposure limits.

108-88-3	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

1333-86-4 Carbon black

PEL Long-term value: 3.5 mg/m³

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(Contd. of page 4) REL Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C TLV | Long-term value: 3* mg/m³ *inhalable fraction 110-19-0 isobutyl acetate PEL Long-term value: 700 mg/m³, 150 ppm REL Long-term value: 700 mg/m³, 150 ppm TLV Short-term value: 172 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm 110-82-7 cyclohexane PEL Long-term value: 1050 mg/m³, 300 ppm REL Long-term value: 1050 mg/m³, 300 ppm TLV Long-term value: 344 mg/m³, 100 ppm · Ingredients with biological limit values: 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

0.3 mg/g creatinine Medium: urine

Time: end of shift

Parameter: Toluene

Parameter: o-Cresol with hydrolysis (background)

- · 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.

Store protective clothing separately.

Avoid contact with the skin.

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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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

9 Physical and chemical properties

T C	, ,	1 . 1	1 1	, , ,	
· Information	on basic	nnvsical	ana c	nemical	properties

· General Information

· Appearance:

Form: Liquid

Color: According to product specification

Odor: Characteristic
 Odor threshold: Not determined.
 pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 79 °C

· Flash point: -4 °C

· Flammability (solid, gaseous): Not applicable.

• Ignition temperature: 535 °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:
 1.2 Vol %

 Upper:
 7.0 Vol %

· Vapor pressure at 20 °C: 29 hPa

Density at 20 °C: 0.91697 g/cm³
 Relative density Not determined.

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· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	79.0 %	
VOC content:	79.0 %	
	724.0 g/l / 6.04 lb/gl	
Solids content:	23.2 %	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · 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 toluene		
	5000 mg/kg (rat)	
LD50	12124 mg/kg (rabbit)	
nalative LC50/4 h 5320 mg/l (mouse)		
110-82-7 cyclohexane		
Oral LD50 12705 mg/kg (rat)		
	oluene LD50 LD50 LC50/4 h yclohexan	

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No 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

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· Carcinogenic categories

· Carcinoge	nic categories	
· IARC (Int	ernational Agency for Research on Cancer)	
108-88-3	toluene	3
1333-86-4	Carbon black	2B
67-63-0	propan-2-ol	3
· NTP (National Toxicology Program)		
None of th	e ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)		
None of th	e ingredients is listed.	
	· · · · · · · · · · · · · · · · · · ·	

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.

7 4 7	T.		
145	<i>Transport</i>	untoi	rmation

· UN-Number · DOT, ADR, IMDG, IATA	UN1263
· UN proper shipping name · DOT · ADR	Paint 1263 Paint, ENVIRONMENTALLY HAZARDOUS, special provision 640D
· IMDG	PAINT (CYCLOHEXANE)

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· IATA	PAINT
· Transport hazard class(es)	
\cdot DOT	
TLAMMAGE LOSIO	
· Class · Label	3 Flammable liquids 3
· ADR, IMDG	
*	
· Class · Label	3 Flammable liquids 3
· IATA	
&	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, ADR, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: cyclohexane
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· EMS Number: · Stowage Category	F-E, <u>S-E</u> B
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of
· Transport/Additional information:	Not applicable.
· Transport/Additional information: · DOT	
· DOI · Quantity limitations	On passenger aircraft/rail: 5 L
· Remarks	On cargo aircraft only: 60 L ORM-D 49CFR 173.150,156,306
· Remarks · ADR	ORM-D 470FR 173.130,130,300
· ADR · Excepted quantities (EQ)	Code: E2
* * · · · · · · · · · · · · · · · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml

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· IMDG
· Limited quantities (LQ)
· Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

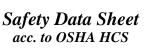
· UN "Model Regulation":

UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II,
ENVIRONMENTALLY HAZARDOUS

	ENVIRONMENTALLY HAZARDOUS	
5 Regulator	ry information	
· Safety, head · Sara	th 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 to	pluene	
110-82-7 c	yclohexane	
67-63-0 p	ropan-2-ol	
· TSCA (Tox	ic Substances Control Act):	
108-88-3	toluene	
1333-86-4	Carbon black	
110-19-0	isobutyl acetate	
110-82-7	cyclohexane	
67-63-0	propan-2-ol	
25068-38-6	bisphenolA(chloro)oxirane polymer	
· Proposition		
	known to cause cancer:	
	Carbon black	
25068-38-6	bisphenolA(chloro)oxirane polymer	
· Chemicals	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
· Chemicals i	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
· Chemicals i	known to cause developmental toxicity:	
108-88-3 to	oluene	
· Canceroger	nity categories	
· EPA (Envir	conmental Protection Agency)	
108-88-3 to	luene	
110-82-7 c	yclohexane	
· TLV (Thres	hold Limit Value established by ACGIH)	
108-88-3	toluene	P
1222 06 4	Carbon black	A

USA

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67-63-0 propan-2-ol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

1333-86-4 Carbon black

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







GHS02

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

toluene

Carbon black

cyclohexane

· Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

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

· Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves / eye protection / face protection.
P240	Ground/bond container and receiving equipment.

P242 *Use only non-sparking tools.*

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

shower.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell. P312 P308+P313 IF exposed or concerned: Get medical advice/attention. P332+P313 If skin irritation occurs: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell.

In case of fire: Use for extinction: CO2, powder or water spray. P370+P378 Take off contaminated clothing and wash it before reuse. P362+P364

Store locked up. P405

Store in a well-ventilated place. Keep container tightly closed. P403+P233

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

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

regulations.

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· 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 05/31/2016 / 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

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. 2: Flammable liquids - Category 2

Skin Irrit. 2: Skin corrosion/irritation - Category 2 Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

* * Data compared to the previous version altered.