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Reviewed on 11/14/2016

1 Identification

Printing date 11/14/2016

- · Product identifier
- · Trade name: 40641,40644,40645 Pro-Tex Kits with hardener
- · Article number: 40640 kit
- · 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

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Repr. 2	H361	Suspected of damaging fertility or the unborn child.
STOT SE 2	H371	May cause damage to organs.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

- Eye Irrit. 2A H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· Label elements

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



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Safety Data Sheet acc. to OSHA HCS



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Signal word Da	(Contd. of pa
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	ining components of labeling:
HDI Prepolyme	
POLYESTER R	ESIN
Talc	
heptan-2-one	
Hazard stateme	
	ummable liquid and vapor.
H302 Harmful	
H315 Causes sk	
	erious eye irritation.
	e allergy or asthma symptoms or breathing difficulties if inhaled.
	e an allergic skin reaction.
	l of damaging fertility or the unborn child.
	e damage to organs.
	e respiratory irritation.
Precautionary S	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 P260	Use explosion-proof electrical/ventilating/lighting/equipment.
	Do not breathe dust/fume/gas/mist/vapors/spray.
P284	[In case of inadequate ventilation] wear respiratory protection.
P280	Wear protective gloves / eye protection / face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
P242 P243	Use only non-sparking tools.
P245 P264	Take precautionary measures against static discharge.
P204 P270	Wash thoroughly after handling.
	Do not eat, drink or smoke when using this product.
P272	<i>Contaminated work clothing must not be allowed out of the workplace.</i>
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P305+P301+P.	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with we
D205 + D251 + D	shower.
1 303+F331+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pro
P321	and easy to do. Continue rinsing. Specific treatment (see on this label).
P321 P342+P311	
P342+P311 P301+P312	If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P363	Wash contaminated clothing before reuse.
P303 P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable
1 30471 341	breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If exposed of concerned. Get medical davice/difension. If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P330	<i>If eye irritation persists. Get medical davice/altention.</i> <i>Rinse mouth.</i>
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+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/internati
1.501	regulations.
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• **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:
- *Mixture: consisting of the following components. Weight percentages*

· Dangerous	-	
28182-81-2	HDI Prepolymer	30 - 40%
14807-96-6	Talc	13 - 30%
	POLYESTER RESIN	5 - 7%
	POLYESTER RESIN	5 - 7%
67-64-1	acetone	5 - 7%
123-86-4	n-butyl acetate	1.5 - 5%
	heptan-2-one	1.5 - 5%
	ethyl 3-ethoxypropionate	1.5 - 5%
108-65-6	2-methoxy-1-methylethyl acetate	1.5 - 5%
108-88-3	toluene	<i>≤1%</i>

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

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.

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(Contd. of page 3)

- · After swallowing: Immediately call a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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
- \cdot 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.
- \cdot Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.

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- 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 other constituents have no known exposure limits.

	1 acetone
PEL	Long-term value: 2400 mg/m ³ , 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/m ³ , 250 ppm
	BEI
123-8	6-4 n-butyl acetate
PEL	Long-term value: 710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m³, 200 ppm
	Long-term value: 710 mg/m³, 150 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm
	Long-term value: 238 mg/m ³ , 50 ppm
110-4.	3-0 heptan-2-one
PEL	Long-term value: 465 mg/m ³ , 100 ppm
REL	Long-term value: 465 mg/m ³ , 100 ppm
TLV	Long-term value: 233 mg/m³, 50 ppm
108-6	5-6 2-methoxy-1-methylethyl acetate
WEEL	. Long-term value: 50 ppm
108-8	8-3 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/m ³ , 20 ppm
	BEI
Ingrea	lients with biological limit values:
67-64	1 acetone
BEI 5	0 mg/L
	Iedium: urine
	Time: end of shift
ŀ	Parameter: Acetone (nonspecific)
	(Contd. on pag

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108-	-88-3 toluene (Contd. of page 5)
BEI	0.02 mg/L
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/L (Medium: urine Medium: urine Time: end of shift 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 masures: Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. 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 exp mechians: Due to missing tests no recommendation to the glove material can be given for the product/ the prepar chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degra	
	0.03 mg/L
	0.3 mg/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: o-Cresol with hydrolysis (background)
· Add	itional information: The lists that were valid during the creation were used as basis.
· Pers · Gen Kee Imm Was Stor Avo · Bred In co resp · Prot Due cher	sonal protective equipment: eral protective and hygienic measures: p away from foodstuffs, beverages and feed. mediately remove all soiled and contaminated clothing. The hands before breaks and at the end of work. The protective clothing separately. id contact with the eyes and skin. athing equipment: ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use irratory protective device that is independent of circulating air. tection of hands: to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
• Mat The	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation. erial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality and es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance

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 travely time has to be found out by the manufacturer of the protective gloves and has to be

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

(Contd. on page 7) USA

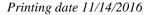
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Trade name: 40641,40644,40645 Pro-Tex Kits with hardener

(Contd. of page 6) · Eye protection: Tightly sealed goggles 9 Physical and chemical properties · Information on basic physical and chemical 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:** 151 °C -18 °C · Flash point: · Flammability (solid, gaseous): Not applicable. 465 °C · Ignition temperature: · Decomposition temperature: Not determined. Product is not selfigniting. · Auto igniting: · Danger of explosion: In use, may form flammable/explosive vapour-air mixture. · Explosion limits: Not determined. Lower: Not determined. Upper: · Vapor pressure: Not determined. 1.20077 g/cm³ · Density at 20 °C: · Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Not miscible or difficult to mix. Water: · Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Not determined. Kinematic: Not determined. · Solvent content: 17.2 % **Organic solvents:**

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		(Contd. of page 7)
VOC content:	12.0 %	
	156.9 g/l / 1.31 lb/gl	
Solids content:	82.4 %	
• 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:

28182-81-2 HDI Prepolymer

Oral	LD50	1000 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)
Inhalative	LC50/4 h	137-1150 mg/l (rat)

· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

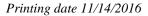
The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (Inter	national Agency for Research on Cancer)	
14807-96-6	Talc	3
1333-86-4	Carbon black	2B
1330-20-7	xylene	3
108-88-3	toluene	3
111-76-2	2-butoxyethanol	3
· NTP (Natio	nal Toxicology Program)	
None of the	ingredients is listed.	
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the 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.
- \cdot 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.

- 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	UN1993
· UN proper shipping name	
$\cdot DOT$	Flammable liquids, n.o.s. (Acetone)
·ADR	1993 Flammable liquids, n.o.s. (Acetone), special provision 6401
· IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONE, HDI Prepolymer)
·IATA	FLAMMABLE LIQUID, N.O.S. (ACETONE)
• Transport hazard class(es)	
·DOT	
RAMABE LIDIO	
· Class	3 Flammable liquids



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Label	(Contd. of pa 3
ADR, IMDG	
Class Label	3 Flammable liquids 3
IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, ADR, IMDG, IATA	Ш
Environmental hazards:	Product contains environmentally hazardous substances: H
Environmental nazaras:	Product contains environmentality nazarabus substances. E Prepolymer
Marine pollutant:	Yes
Special marking (ADP).	Symbol (fish and tree) Symbol (fish and tree)
Special marking (ADR):	
Special precautions for user EMS Number:	Warning: Flammable liquids F-E,S-E
Stowage Category	B
Transport in bulk according to Annex L MARPOL73/78 and the IBC Code	I of Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDC	
IMDG Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
~ ~	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S., SPECIAL PROVISIO 640D (ACETONE), 3, II

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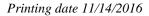
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Section 355	(extremely hazardous substances):	
None of the	ingredient is listed.	
Section 313	(Specific toxic chemical listings):	_
14807-96-6	Talc	
	Acrylic Resin	
1330-20-7	xylene	
108-88-3	toluene	
822-06-0	hexamethylene-di-isocyanate	
111-76-2	2-butoxyethanol	
TSCA (Toxi	ic Substances Control Act):	
28182-81-2	HDI Prepolymer	
14807-96-6	Talc	
67-64-1	acetone	
	n-butyl acetate	
	heptan-2-one	
	ethyl 3-ethoxypropionate	
	2-methoxy-1-methylethyl acetate	
	Carbon black	
1330-20-7		
108-88-3		
	dibutyltin dilaurate	
	hexamethylene-di-isocyanate	
	2-butoxyethanol	
	OXIRANE,ME, POLYMER	
Proposition		
	known to cause cancer:	
	Carbon black	
1330-20-7 x	-	
Chemicals k	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
Chemicals k	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemicals k	known to cause developmental toxicity:	
108-88-3 to		
Cancerogen	nity categories	
EPA (Envir	conmental Protection Agency)	
67-64-1 a	acetone	Ι
1330-20-7 2	rylon e	I





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		(Contd. of page 11)		
108-88-3	toluene			
111-76-2	2-butoxyethanol	NL		
TLV (Threshold Limit Value established by ACGIH)				
14807-96-6	Talc	A4		
67-64-1	acetone	A4		
1333-86-4	Carbon black	A4		
1330-20-7	xylene	A4		
108-88-3	toluene	A4		
77-58-7	dibutyltin dilaurate	A4		
111-76-2	2-butoxyethanol	A3		
· 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*



· Signal word Danger

· Signal word De	inger	
	ining components of labeling:	
HDI Prepolymer		
POLYESTER R	ESIN	
Talc		
heptan-2-one		
• Hazard stateme	ents	
H225 Highly flammable liquid and vapor.		
H302 Harmful	if swallowed.	
H315 Causes si	kin irritation.	
H319 Causes se	erious eye irritation.	
H334 May caus	e allergy or asthma symptoms or breathing difficulties if inhaled.	
H317 May caus	e an allergic skin reaction.	
H361 Suspected	l of damaging fertility or the unborn child.	
H371 May caus	e damage to organs.	
H335 May caus	re respiratory irritation.	
· 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.	
P284	[In case of inadequate ventilation] wear respiratory protection.	
P280	Wear protective gloves / eye protection / face protection.	
P240	Ground/bond container and receiving equipment.	
P233	Keep container tightly closed.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P272	Contaminated work clothing must not be allowed out of the workplace.	
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Trade name: 40641,40644,40645 Pro-Tex Kits with hardener

	(Contd. of page 12)
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.
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).
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P363	Wash contaminated clothing before reuse.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for
	breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P330	Rinse mouth.
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+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: Steve Gaver (sgaver@semproducts.com)

· Date of preparation / last revision 11/14/2016 / 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

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

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Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Repr. 2: Reproductive toxicity – Category 2 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2 \cdot * Data compared to the previous version altered.

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