

Reviewed on 06/20/2017

# Printing date 06/28/2017

# 1 Identification

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- · Product identifier
- Trade name: 39463 Undercoating
- · Article number: 39463
- · Application of the substance / the mixture Coating

# 2 Hazard(s) identification

· Classification of the substance or mixture				
	GHS02 G	GHS04 Flame, Gas cylinder		
Flam. Aerosol	1 H222	Extremely flammable aerosol.		
GHS	04 Gas cylinde	2 <b>r</b>		
Press. Gas	H280	Contains gas under pressure; may explode if heated.		
GHS	06 Skull and c	rossbones		
Acute Tox. 3	H301	Toxic if swallowed.		
GHS	08 Health haze	ard		
Muta. 1B	H340	May cause genetic defects.		
Carc. 1B	H350	May cause cancer.		
Repr. 2	H361	Suspected of damaging fertility or the unborn child.		
STOT RE 1	Н372-Н373	Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.		
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.		
GHS	07			
Skin Irrit. 2	H315	Causes skin irritation.		
Eye Irrit. 2A	H319	Causes serious eye irritation. (Contd. on page 2)		

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P330

P331

Rinse mouth.

Do NOT induce vomiting.

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		(Contd. of page 1)
STOT SE	3 H335 May	cause respiratory irritation.
· Label ele	ments	
		classified and labeled according to the Globally Harmonized System (GHS).
· Hazard p		
<u> </u>		
JUL .		
<u>₹7</u>		
GHS02	GHS04 GHS06 GH	IS07 GHS08
· Signal wo	ord Danger	
• Hazard-d	letermining components o	f labeling:
Asphalt		
	aphtha (petroleum), light a	liph.
Talc		
Solvent no	aphtha (petroleum), mediu	m aliph.
$\cdot$ Hazard st		
H222	Extremely flammable a	
H280		ssure; may explode if heated.
H301	Toxic if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irrit	
H340	May cause genetic defe	cts.
H350	May cause cancer.	
H361		fertility or the unborn child.
H335	May cause respiratory	
П3/2-П3		ins through prolonged or repeated exposure. May cause damage to the central
H304	May be fatal if swallow	n prolonged or repeated exposure.
	onary statements	eu unu emers un wuys.
P201		nstructions before use.
P202		ntil all safety precautions have been read and understood.
P210		p heat/sparks/open flames/hot surfaces. No smoking.
P211		an open flame or other ignition source.
P251		r burn, even after use.
P260		dust/fume/gas/mist/vapors/spray.
P264		y after handling.
P270	Do not eat, drin	k or smoke when using this product.
P271		ors or in a well-ventilated area.
P280		gloves/protective clothing/eye protection/face protection.
P301+P3		D: Immediately call a POISON CENTER/ doctor.
P302+P3		ash with plenty of water.
P304+P3		Remove person to fresh air and keep comfortable for breathing.
P305+P3		e cautiously with water for several minutes. Remove contact lenses, if present
<b>D2</b> 00 . <b>D</b> 2	2	Continue rinsing.
P308+P3 P312	*	oncerned: Get medical advice/attention. CENTEP/doctor if you feel unwell
P312 P314		CENTER/doctor if you feel unwell. vice/attention if you feel unwell.
P314 P321		nt (see on this label).
1041	Specific incume	the loce on this mooth.

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P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding $50^{\circ}C/122^{\circ}F$ .
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
	-

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



### · HMIS-ratings (scale 0 - 4)

HEALTH *2	Health = *2
FIRE 4	Fire = 4
<b>REACTIVITY</b> 3	<i>Reactivity</i> = $3$

#### · 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 components:			
8052-42-4	Asphalt	13 - 30%	
68476-86-8	Petroleum gases, liquefied, sweetened	13 - 30%	
64742-89-8	Solvent naphtha (petroleum), light aliph.	13 - 30%	
14807-96-6	Talc	7 - 10%	
	barium sulphate, natural	7 - 10%	
64742-88-7	Solvent naphtha (petroleum), medium aliph.	1.5 - 5%	
108-88-3	toluene	1.5 - 5%	
68911-87-5	montmorilontie clay complex	1.5 - 5%	

### 4 First-aid measures

#### · Description of first aid measures

· General information: Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.



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- (Contd. of page 3) • 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: Do not induce vomiting; immediately call for medical help.
- · 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. • **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.*
- · 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.
- 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

· PAC-1:		
8052-42-4	Asphalt	30 mg/m3
7727-43-7	barium sulphate, natural	15 mg/m3
108-88-3	toluene	67 ppm
1333-86-4	Carbon black	9 mg/m3
· PAC-2:		
8052-42-4	Asphalt	330 mg/m3
7727-43-7	barium sulphate, natural	170 mg/m3
108-88-3	toluene	560 ppm
1333-86-4	Carbon black	99 mg/m3
· PAC-3:		
8052-42-4	Asphalt	2,000 mg/m3
7727-43-7	barium sulphate, natural	990 mg/m3
108-88-3	toluene	3700* ppm
		(Contd. on page 5)

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1333-86-4 Carbon black

(Contd. of page 4) 590 mg/m3

# 7 Handling and storage

### · Handling:

- · Precautions for safe handling
- No special measures required.

Ensure good ventilation/exhaustion at the workplace.

· 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.

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:
- 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.
- 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.

	$r \sim r \sim r$
8052	-42-4 Asphalt
REL	Ceiling limit value: 5* mg/m <sup>3</sup> *15-min; See Pocket Guide App. A
TLV	Long-term value: 0.5* mg/m <sup>3</sup> *inh. fraction; as benzene-soluble aerosol; BEIp
7727	-43-7 barium sulphate, natural
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 5* mg/m³ *inhalable fraction; E
108-8	88-3 toluene
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
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REL Short-term value: 560 mg/m³, 150 ppm	
Long-term value: 375 mg/m <sup>3</sup> , 100 ppm	
TLV Long-term value: 75 mg/m <sup>3</sup> , 20 ppm	
BEI	
· Ingredients with biological limit values:	
8052-42-4 Asphalt	
BEI -	
Medium: urine	
Time: end of shift at end of workweek	
Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)	
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)	
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 eyes and skin.	
Breathing equipment:	
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer expos respiratory protective device that is independent of circulating air.	sure use
• Protection of hands:	
Due to missing tests no recommendation to the glove material can be given for the product/ the preparate	ion/ the
chemical mixture.	
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degrada	ition
đ	
Directosting gloups	
Protective gloves	

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

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• *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

Information on basic physical and chemical properties		
· General Information		
• Appearance: Form:	Aerosol	
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:	131 °C	
· Flash point:	-103 °C	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	~490 °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:	1.9 Vol %	
Upper:	9.5 Vol %	
· Vapor pressure at 20 °C:	14 hPa	
· Density at 20 •C:	0.85787 g/cm <sup>3</sup>	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wat	er): Not determined.	

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		(Contd. of page 7
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	51.2 %	
VOC content:	51.2 %	
	439.1 g/l / 3.66 lb/gl	
Solids content:	48.8 %	
• 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

Oral	LD50	5000 mg/kg (rat)
	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

· 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: Toxic* 

Irritant

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
8052-42-4	Asphalt	2B
14807-96-6	Talc	3
108-88-3	toluene	3
1333-86-4	Carbon black	2B
	(Contd. on p	page 9)



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#### · 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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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	
· IMDG	AEROSOLS	
·IATA	AEROSOLS, flammable	



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	(Contd. of page
· Transport hazard class(es)	
·DOT	
TLAMMAINE CAS	
2	
· Class	2.1
· Label	2.1
·ADR	· · · · · · · · · · · · · · · · · · ·
V	
· 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
$\cdot$ Special precautions for user	Warning: Gases
· EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litra
	Category A. For AEROSOLS with a maximum capacity of 1 litro
	Category B. For WASTE AEROSOLS: Category C, Clear of livin
	quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litr
	Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre
	Segregation as for the appropriate subdivision of class 2. For
	WASTE AEROSOLS: Segregation as for the appropriate subdivision
	of class 2.
· Transport in bulk according to Ann	ex II of
MARPOL73/78 and the IBC Code	Not applicable.
	(Contd. on page



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		(Contd. of page 10
Transport/Additional information:		
·DOT		
Quantity limitations	On passenger aircraft/rail: 75 kg	
	On cargo aircraft only: 150 kg	
ADR		
• Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
IMDG		
Limited quantities (LQ)	1L	
$\cdot$ Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
· UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1	

# 15 Regulatory information

\*

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

none of the	ingredient is listed.
Section 313	(Specific toxic chemical listings):
14807-96-6	Talc
7727-43-7	barium sulphate, natural
108-88-3	toluene
TSCA (Toxi	c Substances Control Act):
8052-42-4	Asphalt
14807-96-6	Talc
7727-43-7	barium sulphate, natural
64742-88-7	Solvent naphtha (petroleum), medium aliph.
108-88-3	toluene
68911-87-5	montmorilontie clay complex
69430-35-9	Alicyclic hydrocarbon resin
9017-27-0	Alpha-methyl styrene/vinyl toluene copolymer
66070-58-4	Styrene-Ethylene/Butylene-Styrene block Copolymer
1333-86-4	Carbon black
8042-47-5	White Mineral oil
6683-19-8	Tertrakis(methylene(3,5-di(tert)-butyl-4-hydroxyhydrocinnamate)) methane
84633-54-5	Pentaerythritol tris tri ester with 3-(3,5-di-(tert)-butyl-4-hydroxyphenyl)propionic acid
Proposition	65
Chemicals k	cnown to cause cancer:
8052-42-4	Asphalt
1333-86-4	Carbon black

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Safety Data Sheet acc. to OSHA HCS



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· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
108-88-3 toluene	
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
7727-43-7 barium sulphate, natural	D, CBD(inh), NL(oral
108-88-3 toluene	II
· TLV (Threshold Limit Value established by ACGIH)	
8052-42-4 Asphalt	
14807-96-6 Talc	A
108-88-3 toluene	A
1333-86-4 Carbon black	A
·NIOSH-Ca (National Institute for Occupational Safety and Health)	
8052-42-4 Asphalt	
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

· Hazard-determining components of labeling:

Asphalt

Solvent naphtha (petroleum), light aliph.

Talc

- Solvent naphtha (petroleum), medium aliph.
- Hazard statements
- H222 Extremely flammable aerosol.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H335 May cause respiratory irritation.
- H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways.

### · Precautionary statements

P201 Obtain special instructions before use.

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P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
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.

· National regulations:

· Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

• Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. *Exceptions can be made by the authorities in certain cases.* 

· 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.

· Date of preparation / last revision 06/28/2017 / 10

· 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



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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. Aerosol 1: Aerosols - Category 1 Press. Gas: Gases under pressure - Compressed gas Acute Tox. 3: Acute toxicity - Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Muta. 1B: Germ cell mutagenicity – Category 1B Carc. 1B: Carcinogenicity - Category 1B Repr. 2: Reproductive toxicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 Asp. Tox. 1: Aspiration hazard - Category 1  $\cdot$  \* Data compared to the previous version altered.