

1 Identification

· Product identifier

· Trade name: 49133 Trim Black Ultra Matte

· Article number: 49133

- · Application of the substance / the mixture Coating
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: SEM Products Inc.

### 2 Hazard(s) identification

· Classification of the substance or mixture





GHS02 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode 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.



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). (Contd. on page 2)

LISA



(Contd. of page 1)

#### · Hazard pictograms









GHS04

GHS07

#### · Signal word Danger

### · Hazard-determining components of labeling:

acetone

toluene

n-butyl acetate

butanone

#### · Hazard statements

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode 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.

H336 May cause drowsiness or dizziness.

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

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

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

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

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

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.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

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

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

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.

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

regulations.

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



Health = 2 Fire = 4Reactivity = 3

· HMIS-ratings (scale 0 - 4)



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

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mixture: consisting of the following components.

Weight percentages

· Dangerous components:		
67-64-1	acetone	30-40%
68476-86-8	Petroleum gases, liquefied, sweetened	13-30%
108-88-3	toluene	<i>≥</i> 7-<10%
<i>763-69-9</i>	ethyl 3-ethoxypropionate	1.5-5%
123-86-4	n-butyl acetate	1.5-5%
110-19-0	isobutyl acetate	1.5-5%
<i>78-93-3</i>	butanone	1.5-5%
108-65-6	2-methoxy-1-methylethyl acetate	1.5-5%
1333-86-4	Carbon black	1-1.5%
100-41-4	ethylbenzene	<i>≥</i> 0.1- <i>≤</i> 1%

## 4 First-aid measures

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

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

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

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· 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

67-64-1	acetone	200 ppm
108-88-3	toluene	67 ppm
763-69-9	ethyl 3-ethoxypropionate	1.6 ppm
123-86-4	n-butyl acetate	5 ppm
110-19-0	isobutyl acetate	450 ppm
78-93-3	butanone	200 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
1333-86-4	Carbon black	9 mg/m³
1330-20-7	xylene	130 ppm
112926-00-8	precipitated Silica (Silica-Amorphous)	18 mg/m
100-41-4	ethylbenzene	33 ppm
71-36-3	butan-1-ol	60 ppm
78-83-1	butanol	150 ppm
67-56-1	methanol	530 ppm
57-55-6 Methyl glycol		30 mg/m
PAC-2:		•
67-64-1	acetone	3200* ppm
108-88-3	toluene	560 ppm
763-69-9	ethyl 3-ethoxypropionate	18 ppm



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123-86-4	n-butyl acetate	(Contd. of page 200 ppm
	isobutyl acetate	1300* ppm
78-93-3	butanone	2700* ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
	Carbon black	99 mg/m³
1330-20-7	xylene	920* ppm
112926-00-8	precipitated Silica (Silica-Amorphous)	200 mg/m³
100-41-4	ethylbenzene	1100* ppm
71-36-3	butan-1-ol	800 ppm
78-83-1	butanol	1,300 ppm
67-56-1	methanol	2,100 ppm
57-55-6	Methyl glycol	1,300 mg/n
<i>PAC-3:</i>		
67-64-1	acetone	5700* ppm
108-88-3	toluene	3700* ppm
763-69-9	ethyl 3-ethoxypropionate	110 ppm
123-86-4	n-butyl acetate	3000* ppm
110-19-0	isobutyl acetate	7500** ppr
78-93-3	butanone	4000* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
1333-86-4	Carbon black	$590 \text{ mg/m}^3$
1330-20-7	xylene	2500* ppm
112926-00-8	precipitated Silica (Silica-Amorphous)	1,200 mg/m
100-41-4	ethylbenzene	1800* ppm
71-36-3	butan-1-ol	8000** ppn
78-83-1	butanol	8000* ppm
67-56-1	methanol	7200* ppm
57-55-6	Methyl glycol	7,900 mg/m

### 7 Handling and storage

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

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.

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· 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/m³, 1000 ppm
REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: 1187 mg/m³, 500 ppm
	Long-term value: 594 mg/m³, 250 ppm
	BEI
	3-3 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: $375 \text{ mg/m}^3$ , $100 \text{ ppm}$
TLV	Long-term value: 75 mg/m³, 20 ppm
	BEI
	5-4 n-butyl acetate
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Long-term value: 950 mg/m³, 200 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm
	Long-term value: 238 mg/m³, 50 ppm
110-19	9-0 isobutyl acetate
PEL	Long-term value: 700 mg/m³, 150 ppm
REL	Long-term value: 700 mg/m³, 150 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm
	Long-term value: 238 mg/m³, 50 ppm
<i>78-93-</i>	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
108-63	5-6 2-methoxy-1-methylethyl acetate
WFFI	Long-term value: 50 ppm

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1333-2	86-4 Carbon black	(Contd. of pag
PEL	Long-term value: 3.5 mg/m <sup>3</sup>	
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	
100-4	1-4 ethylbenzene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 87 mg/m³, 20 ppm BEI	
Ingred	dients with biological limit values:	
67-64-	-1 acetone	
N T	50 mg/L Medium: urine Fime: end of shift Parameter: Acetone (nonspecific)	
	8-3 toluene	
N T	0.02 mg/L Medium: blood Fime: prior to last shift of workweek Parameter: Toluene	
N T	0.03 mg/L Medium: urine Fime: end of shift Parameter: Toluene	
N T	0.3 mg/g creatinine Medium: urine Fime: end of shift Parameter: o-Cresol with hydrolysis (background)	
78-93-	-3 butanone	
7	ng/L Medium: urine Fime: end of shift Parameter: MEK	
100-4	1-4 ethylbenzene	
BEI 0 M T	0.7 g/g creatinine Medium: urine Fime: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)	
7	Medium: end-exhaled air Fime: not critical	
IF	Parameter: Ethyl benzene (semi-quantitative)	



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- · 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 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.

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:

Safety glasses



Tightly sealed goggles

### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Aerosol
Color: Black

· Odor: Characteristic
· Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 55.8-56.6 °C

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	(Contd. of page
· Flash point:	-103 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	405 °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:	1.8 Vol %
Upper:	13 Vol %
· Vapor pressure at 20 °C:	233 hPa
· Density at 20 °C:	$0.72099 \ g/cm^3$
· 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/wa	<b>ter</b> ): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	93.2 %
Water:	0.0 %
VOC content:	58.15 %
	616.1 g/l / 5.14 lb/gl
Solids content:	6.8 %
· Other information	No further relevant information available.

## 10 Stability and reactivity

- $\cdot \textit{Reactivity} \ \textit{No further relevant information available}.$
- · 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.

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### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:		
108-88-3 toluene		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 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: Irritant

· Carcinogenic categories

· IARC (Inte	ernational Agency for Research on Cancer)	
108-88-3	toluene	3
1333-86-4	Carbon black	2 <i>B</i>
1330-20-7	xylene	3
100-41-4	ethylbenzene	2 <i>B</i>
· NTP (Natio	onal Toxicology Program)	
None of the	e 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:

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.



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## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

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

Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1950
· UN proper shipping name	
· DOT	Aerosols, flammable
· ADR	1950 Aerosols
· IMDG	AEROSOLS (I
· IATA	AEROSOLS, flammable
· Transport hazard class(es)	
· DOT	
FLUMISE DO	
2	
· Class	2.1
· Class · Label	2.1
	2.1
· ADR	
· Class	2 5F Gases
· Label	2.1
· IMDG, IATA	
, mil 0, mil 11	
· Class	2.1
· Label	2.1
· Packing group	
· DOT, ADR, ÎMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Gases



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· EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat.
-	SW22 For AEROSOLS with a maximum capacity of 1 litr
	Category A. For AEROSOLS with a capacity above 1 litr
	Category B. For WASTE AEROSOLS: Category C, Clear of livinguarters.
· Segregation Code	\$G69 For AEROSOLS with a maximum capacity of 1 litr
	Segregation as for class 9. Stow "separated from" class 1 except f
	division 1.4. For AEROSOLS with a capacity above 1 litr
	Segregation as for the appropriate subdivision of class 2. F
	WASTE AEROSOLS: Segregation as for the appropriate subdivision
	of class 2.
· Transport in bulk according to Annex	<b>v</b>
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
$\cdot DOT$	
· Quantity limitations	On passenger aircraft/rail: 75 kg
	On cargo aircraft only: 150 kg
· ADR	
· Excepted quantities (EQ)	Code: E0
Zurepred quantumes (ZZ)	Not permitted as Excepted Quantity
HADC	Z
· IMDG	17
· Limited quantities (LQ)	IL C-1F0
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1

# 15 Regulatory information

108-88-3 toluene

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

· Sara					
· Section 35	· Section 355 (extremely hazardous substances):				
None of th	None of the ingredient is listed.				
· Section 31	3 (Specific toxic chemical listings):				
108-88-3	toluene				
78-93-3	butanone				
	Acrylic Resin				
1330-20-7	xylene				
100-41-4	ethylbenzene				
71-36-3	butan-1-ol				
67-56-1	methanol				
· TSCA (To.	xic Substances Control Act):				
67-64-	67-64-1 acetone				

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	ethyl 3-ethoxypropionate	
123-86-4	n-butyl acetate	٦
110-19-0	isobutyl acetate	
	butanone	
108-65-6	2-methoxy-1-methylethyl acetate	П
	Carbon black	
16883-83-3	benzyl 3-isobutryloxy-1-isopropyl-2-2-dimethylpropyl phthalate	
1330-20-7	xylene	
100-41-4	ethylbenzene	
71-36-3	butan-1-ol	
	OXIRANE, ME, POLYMER	
68911-87-5	montmorilontie clay complex	П
78-8 <i>3-1</i>	butanol	
67-56-1	methanol	
57-55-6	Methyl glycol	
7732-18-5	water	
· TSCA new	(21st Century Act) (Substances not listed)	ī
68476-86-8	Petroleum gases, liquefied, sweetened	_
· Proposition	1 65	_
· Chemicals	known to cause cancer:	
1333-86-4	Carbon black	$\neg$
1330-20-7	xylene	
100-41-4	ethylbenzene	
· Chemicals	known to cause reproductive toxicity for females:	╡
	ingredients is listed.	$\dashv$
	known to cause reproductive toxicity for males:	╡
	ringredients is listed.	$\dashv$
	~	ᆜ
	known to cause developmental toxicity:	_
108-88-3 to		
67-56-1 n		
	nity categories	_
	ronmental Protection Agency)	_
67-64-1		
108-88-3		Į
	butanone	
1330-20-7	•	
	ethylbenzene L	
	butan-1-ol L	)
· TLV (Thres	shold Limit Value established by ACGIH)	
67-64-1	acetone A-	1
108-88-3	toluene A-	1
1333-86-4	Carbon black A4	1
	(Contd. on page 1	4)



		(Contd. of page 13)	
1330-20-7		A4	
100-41-4	ethylbenzene	A3	
· NIOSH-Ca (National Institute for Occupational Safety and Health)			
	Carbon black		
67-56-1	methanol		

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









GHS04

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

acetone

toluene

*n-butyl* acetate

butanone

#### · Hazard statements

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode 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.

H336 May cause drowsiness or dizziness.

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

#### · Precautionary statements

1 recultionary statements		
P201	Obtain special instructions before use.	
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	Pressurized container: Do not pierce or burn, even after use.	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.	
P264	Wash thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

If on skin: Wash with plenty of water.

P302+P352

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.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

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

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

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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.

· 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: Rita Joiner
- · Date of preparation / last revision 03/14/2018 / 15
- · 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)

 ${\it HMIS: Hazardous\ Materials\ Identification\ System\ (USA)}$ 

 $VOC:\ Volatile\ Organic\ Compounds\ (USA,\ EU)$ 

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

 ${\it Skin Irrit.~2: Skin corrosion/irritation-Category~2}$ 

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

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

 $\cdot$  \* Data compared to the previous version altered.

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