Printing date 11.03.2020 Version number 80 Revision: 11.03.2020

1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: PACER MS CLEARCOAT 5 LTR
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Lacquer
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Pacer Car Clean Products NZ Ltd 33 Ha Crescent Wiri Auckland

New Zealand Ph 09 250000 90

· Emergency telephone number: 0800 CHEMCALL (0800 243 622)

2 Hazards identification

Classification of the substance or mixture



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



STOT SE 3 H336 May cause drowsiness or dizziness.

Acute Tox. 5 H333 May be harmful if inhaled.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10-52/53-66-67: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Has a narcotizing effect.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS07

Version number 80

Trade name: PACER MS CLEARCOAT 5 LTR

(Contd. of page 1)

· Signal word Warning

· Hazard-determining components of labelling:

2-butoxyethyl acetate

xylene

Ethylbenzene

· Hazard statements

Flammable liquid and vapour.

May be harmful if inhaled.

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

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

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store locked up.

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

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous c	omponents:	
123-86-4	n-butyl acetate R10-66-67 Flam. Liq. 3, H226; STOT SE 3, H336	25-50%
64742-95-6	Solvent naphtha (petroleum), light arom. Xn R65; Xi R37; N R51/53 R10-66-67 ♠ Flam. Liq. 3, H226; ♠ Asp. Tox. 1, H304; ♠ Aquatic Chronic 2, H411; ↑ STOT SE 3, H335-H336	3-<10%
112-07-2	2-butoxyethyl acetate Xn R20/21/22 ◆ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; H227	3-≤5%
1330-20-7	·	3-≤5%

(Contd. on page 3)

Version number 80

Trade name: PACER MS CLEARCOAT 5 LTR

		Contd. of page 2)
100-41-4	Ethylbenzene	1-<2,5%
	★ Xn R20; FR11	
	Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
26761-45-5	2,3-epoxypropyl neodecanoate	0,3-<1%
	Xi R43; N R51/53	-
	Aquatic Chronic 2, H411; () Skin Sens. 1, H317; Acute Tox. 5, H313; H401	
41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	0,1-<0,25%
	Xi R43; W N R50/53	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🕦 Skin Sens. 1, H317	
127519-17-9	A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-	0,1-<0,3%
	(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates	
	N R51/53	
	4 Aquatic Chronic 2, H411	
· Additional in	formation: For the wording of the listed risk phrases refer to section 16.	

4 First aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult 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 Firefighting measures

- Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

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).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 4)

Version number 80

Trade name: PACER MS CLEARCOAT 5 LTR

See Section 13 for disposal information.

(Contd. of page 3)

7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- Control navameters

· Control parameters		
· Ingredients with limit values that require monitoring at the workplace:		
123-86-4 n-butyl acetate		
WES (New Zealand)	Short-term value: 950 mg/m³, 200 ppm Long-term value: 713 mg/m³, 150 ppm	
112-07-2 2-butoxyet	hyl acetate	
IOELV (EU)	Short-term value: 333 mg/m³, 50 ppm Long-term value: 133 mg/m³, 20 ppm Skin	
1330-20-7 xylene		
WES (New Zealand)	Long-term value: 217 mg/m³, 50 ppm	
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin	
100-41-4 Ethylbenzene		
WES (New Zealand)	Short-term value: 543 mg/m³, 125 ppm Long-term value: 434 mg/m³, 100 ppm	
IOELV (EU)	Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin	

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

(Contd. on page 5)

according to 1907/2006/EC, Article 31

Version number 80

Trade name: PACER MS CLEARCOAT 5 LTR

(Contd. of page 4)

· Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

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



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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: Fluid

According to product specification Colour:

Characteristic · Odour: · Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined. 124 °C

Boiling point/Boiling range:

23 °C (DIN 53213) · Flash point:

Flammability (solid, gaseous): Not applicable.

370 °C (DIN 51794) · Ignition temperature:

· Decomposition temperature: Not determined.

Product is not selfigniting. · Self-igniting:

(Contd. on page 6)

Version number 80

Trade name: PACER MS CLEARCOAT 5 LTR

	(Contd. of page
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
· Explosion limits:	
Lower:	1,2 Vol %
Upper:	7,5 Vol %
· Vapour pressure at 20 °C:	10,7 hPa
· Density at 20 °C:	0,992 g/cm³ (DIN 53217)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/we	ater): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	90 s (DIN 53211/4)
· Solvent content:	
VOC (EC)	51,63 %
Solids content (weight-%):	48,4 %
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values relevant for classification:
64742-95-6 Solvent naphtha (petroleum), light arom.
Oral LD50 >2000 mg/kg (rat)

Dermal | LD50 | >2000 mg/kg (rab)

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

according to 1907/2006/EC, Article 31

Version number 80

Trade name: PACER MS CLEARCOAT 5 LTR

(Contd. of page 6)

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation): 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.

Harmful to aquatic organisms

- · 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 together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

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

14 Transport information

· UN-Number

· IMDG, IATA

· ADR, IMDG, IATA

UN1263

· UN proper shipping name

 $\cdot ADR$

1263 PAINT, special provision 640E

PAINT

3

- · Transport hazard class(es)
- \cdot ADR



· Class 3 (F1) Flammable liquids.

· Label

(Contd. on page 8)

Version number 80

Trade name: PACER MS CLEARCOAT 5 LTR

(Contd. of page 7)

· IMDG, IATA



3 Flammable liquids. · Class

· Label

· Packing group · ADR, IMDG, IATA

III

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Warning: Flammable liquids.

· Danger code (Kemler): 30 · EMS Number: *F-E,S-E*

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

 \cdot ADR

3 · Transport category D/E · Tunnel restriction code · Remarks: ≤ 450 l: -

 \cdot *IMDG*

· Limited quantities (LQ) 5L

≤ 30 l: -· Remarks:

· UN "Model Regulation": UN1263, PAINT, special provision 640E, 3, III

15 Regulatory information

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

· New Zealand	· New Zealand Inventory of Chemicals	
123-86-4	n-butyl acetate	
64742-95-6	Solvent naphtha (petroleum), light arom.	
112-07-2	2-butoxyethyl acetate	
1330-20-7	xylene	
9004-36-8	Cellulose acetate butyrate	
100-41-4	Ethylbenzene	
26761-45-5	2,3-epoxypropyl neodecanoate	
41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	
127519-17-9	A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates	
868-77-9	2-hydroxyethyl methacrylate	
82919-37-7	Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
78-83-1	butanol	
77-58-7	dibutyltin dilaurate	
108-65-6	2-methoxy-1-methylethyl acetate	
	(Contd. on page 9)	

according to 1907/2006/EC, Article 31

Version number 80

Trade name: PACER MS CLEARCOAT 5 LTR

(Contd. of page 8)

· GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS02

GHS07

· Signal word Warning

· Hazard-determining components of labelling:

2-butoxyethyl acetate

xylene

Ethylbenzene

· Hazard statements

Flammable liquid and vapour.

May be harmful if inhaled.

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

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

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store locked up.

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

· National regulations:

Class	Share in %
NK	50-100

· Other regulations, limitations and prohibitive regulations

Surface Coatings and Colourants (Flammable) Group Standard 2006

HSNO Approval Number: The HSNO Approval Number for this Group Standard is HSR002662.

Refer also to the Site & Storage requirements document.

· 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.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H227 Combustible liquid.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H313 May be harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

(Contd. on page 10)

Version number 80

Trade name: PACER MS CLEARCOAT 5 LTR

	(Contd. of page 9)
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R10 R11	
R11 R20	Highly flammable.
R20/21	Harmful by inhalation.
	Harmful by inhalation and in contact with skin.
	Harmful by inhalation, in contact with skin and if swallowed.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
	ions and acronyms:
	nent international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the I Transport of Dangerous Goods by Rail)
	national Civil Aviation Organization
	d européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
	Dangerous Goods by Road)
	national Maritime Code for Dangerous Goods ational Air Transport Association
	ropean Inventory of Existing Commercial Chemical Substances
	ropean List of Notified Chemical Substances
	cal Abstracts Service (division of the American Chemical Society)
	le Organic Compounds (USA, EU)
	l concentration, 50 percent el dose, 50 percent
	: Flammable liquids, Hazard Category 2
	: Flammable liquids, Hazard Category 3
	liquids, Hazard Category 4
	: Acute toxicity, Hazard Category 4 : Acute toxicity, Hazard Category 5
	Skin corrosion/irritation, Hazard Category 2
	: Serious eye damage/eye irritation, Hazard Category 2A
	Sensitisation - Skin, Hazard Category 1
	Specific target organ toxicity - Single exposure, Hazard Category 3
	Specific target organ toxicity - Repeated exposure, Hazard Category 2 Aspiration hazard, Hazard Category 1
	te 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
: Ĥazardous	to the aquatic environment - AcuteHazard, Category 2
Aquatic Chr	onic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
	onic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
	onic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 mpared to the previous version altered.
Data Col	mpureu to the previous version uncreu.

according to 1907/2006/EC, Article 31

I Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: PACER HARDENER 2.5L
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Hardening agent/ Curing agent
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Pacer Car Clean Products NZ Ltd 33 Ha Crescent Wiri Auckland

New Zealand Ph 09 250000 90

· Emergency telephone number: 0800 CHEMCALL (0800 243 622)

2 Hazards identification

· Classification of the substance or mixture



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



health hazard

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



Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Acute Tox. 5 H333 May be harmful if inhaled.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20: Harmful by inhalation.



Xi; Irritant

R37: Irritating to respiratory system.

×

Xi; Sensitising

R43: May cause sensitisation by skin contact.

R10-52/53-66: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

(Contd. on page 2)

Version number 188

Trade name: PACER HARDENER 2.5L

(Contd. of page 1)

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature

- · Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02

GHS07

GHS08

· Signal word Danger

· Hazard-determining components of labelling:

Hexamethylene diisocyanate, oligomers

xylene

4-isocyanatosulphonyltoluene

hexamethylene-di-isocyanate

· Hazard statements

Flammable liquid and vapour.

May be harmful if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation. May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store locked up.

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
123-86-4	n-butyl acetate	25-50%
	R10-66-67	
	🊸 Flam. Liq. 3, H226; 🕚 STOT SE 3, H336	
	(C	ontd. on page 3)

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Trade name: PACER HARDENER 2.5L

		Contd. of page 2
28182-81-2	Hexamethylene diisocyanate, oligomers	25-50%
	X Xn R20; X Xi R37; X Xi R43	
	♦ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
64742-95-6	Solvent naphtha (petroleum), light arom.	3-<10%
	X Xn R65; X Xi R37; Y N R51/53	
	R10-66-67	
	♠ Flam. Liq. 3, H226; ♠ Asp. Tox. 1, H304; ♠ Aquatic Chronic 2, H411;	1
	♦ STOT SE 3, H335-H336	
108-65-6	2-methoxy-1-methylethyl acetate	3-<10%
	R10	
	♠ Flam. Liq. 3, H226	
1330-20-7	xylene	3-≤5%
	X Xn R20/21; X Xi R38	_
	R10	
	♠ Flam. Liq. 3, H226; ♦ STOT RE 2, H373; Asp. Tox. 1, H304; ♦ Acute Tox.	
	4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3,	
	H335	
4083-64-1	4-isocyanatosulphonyltoluene	0,1-<0,3%
	Xi R36/37/38; Xn R42	
	R14	
	& Resp. Sens. 1, H334; 🗘 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3,	1
	H335	

4 First aid measures

- · Description of first aid measures
- · General information:

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

In case of irregular breathing or respiratory arrest provide artificial respiration.

· Additional information: For the wording of the listed risk phrases refer to section 16.

· 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.
- · After swallowing: Seek immediate medical advice.
- · 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 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

(Contd. on page 4)

Version number 188

Trade name: PACER HARDENER 2.5L

(Contd. of page 3)

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

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

Store away from foodstuffs.

- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters

123-86-4 n-butyl	acetate	
WES (New Zealar	nd) Short-term value: 950 mg/m³, 200 ppm Long-term value: 713 mg/m³, 150 ppm	
108-65-6 2-meth	oxy-1-methylethyl acetate	
IOELV (EU)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin	

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according to 1907/2006/EC, Article 31

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1330-20-7 xylene WES (New Zealand) Long-term value: 217 mg/m³, 50 ppm IOELV (EU) Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin

- Additional information: The lists valid during the making 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.

Do not inhale gases / fumes / aerosols.

Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2

· Protection of hands:



Protective gloves

· Material of gloves

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.7 mm

· Penetration time of glove material

For the mixture of chemicals the penetration time has to be at least 60 minutes (Permeation according to EN 374 Part 3: Level 3).

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

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

Form: Fluid

Colour: According to product specification

· Odour: Characteristic · Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Undetermined. *Melting point/Melting range:* 124 °C Boiling point/Boiling range:

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	(Contd. of page
· Flash point:	30 °C (DIN 53213)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	315 °C (DIN 51794)
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
· Explosion limits:	
Lower:	1,2 Vol %
Upper:	7,5 Vol %
· Vapour pressure at 20 °C:	10,7 hPa
· Density at 20 °C:	0,969 g/cm³ (DIN 53217)
Relative density	Not determined.
· Vapour density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wo	uter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	13 s (DIN 53211/4)
· Solvent content:	
VOC (EC)	63,82 %
Solids content (weight-%):	36,1 %
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

Possible in traces.

Nitrogen oxides

Hydrogen chloride (HCl)

Hydrogen cyanide (prussic acid)

Carbon monoxide

Nitrogen oxides (NOx)

according to 1907/2006/EC, Article 31

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

LD/LC50 values relevant for classification:

64742-95-6 Solvent naphtha (petroleum), light arom.

 Oral
 LD50
 >2000 mg/kg (rat)

 Dermal
 LD50
 >2000 mg/kg (rab)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful Irritant

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation): 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.

Harmful to aquatic organisms

- · 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 together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

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

ΝZ

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UN-Number	
ADR, IMDG, IATA	UN1263
UN proper shipping name	
ADR	1263 PAINT RELATED MATERIAL, special provision 640E
IMDG, IATA	PAINT RELATED MATERIAL
Transport hazard class(es)	
ADR	
3	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	F-E, <u>S-E</u>
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
ADR	
Transport category	3
Tunnel restriction code	D/E
IMDG Limited quantities (LQ)	5L
UN "Model Regulation":	UN1263, PAINT RELATED MATERIAL, special provis 640E, 3, III

15 Regulatory information

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

	· New Zealan	· New Zealand Inventory of Chemicals			
Ī	123-86-4	n-butyl acetate			
	28182-81-2	Hexamethylene diisocyanate, oligomers			
	64742-95-6	Solvent naphtha (petroleum), light arom.			
		(0, +1, 0)			

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	(Contd. of page 8)
108-65-6	2-methoxy-1-methylethyl acetate
1330-20-7	· ·
	Ethylbenzene
4083-64-1	4-isocyanatosulphonyltoluene
	hexamethylene-di-isocyanate
77-58-7	dibutyltin dilaurate

GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02

GHS07

GHS08

· Signal word Danger

· Hazard-determining components of labelling:

Hexamethylene diisocyanate, oligomers

xylene

4-isocyanatosulphonyltoluene

hexamethylene-di-isocyanate

Hazard statements

Flammable liquid and vapour.

May be harmful if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation. May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store locked up.

· National regulations:

Class	Share in %
I	0,1-<0,3
NK	50-100

· Other regulations, limitations and prohibitive regulations

Surface Coatings and Colourants (Flammable) Group Standard 2006

HSNO Approval Number: The HSNO Approval Number for this Group Standard is HSR002662.

Refer also to the Site & Storage requirements document.

· 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.

· Relevant phrases

Flammable liquid and vapour. H226

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	(Contd. of page 9)		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H411	Toxic to aquatic life with long lasting effects.		
R10	Flammable.		
R14	Reacts violently with water.		
R20	Harmful by inhalation.		
R20/21	Harmful by inhalation and in contact with skin.		
	8 Irritating to eyes, respiratory system and skin.		
R37	Irritating to respiratory system.		
R38	Irritating to skin.		
R42	May cause sensitisation by inhalation.		
R43	May cause sensitisation by skin contact.		
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
R65	Harmful: may cause lung damage if swallowed.		
R66	Repeated exposure may cause skin dryness or cracking.		
R67	Vapours may cause drowsiness and dizziness.		
	tions 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)		
	rnational Civil Aviation Organization		
	ord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International f Dangerous Goods by Road)		
	ernational Maritime Code for Dangerous Goods		
	rnational Air Transport Association		
	Suropean Inventory of Existing Commercial Chemical Substances		
ELINCS: E	Curopean List of Notified Chemical Substances		
	nical Abstracts Service (division of the American Chemical Society) tile Organic Compounds (USA, EU)		
	nal concentration, 50 percent		
	nal dose, 50 percent		
Flam. Liq. 3: Flammable liquids, Hazard Category 3			
	4: Acute toxicity, Hazard Category 4		
Acute Tox. 5: Acute toxicity, Hazard Category 5 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2			
	Eye Irrit. 2: Skin corroston/irritation, Hazard Category 2		
	Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A		
	1: Sensitisation - Respirat., Hazard Category 1		
	1: Sensitisation - Skin, Hazard Category 1 : Specific target organ toxicity - Single exposure, Hazard Category 3		
	: Specific target organ toxicity - Single exposure, Hazard Category 3 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2		
	: Aspiration hazard, Hazard Category 1		
	aronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2		
	Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3		
· * Data c	* Data compared to the previous version altered.		