Page 1/15



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2021

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

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

1.1 Product identifier

Trade name: 1.2 Relevant identified uses of the substance or mixture and	<u>4:1 FILLER</u>
uses advised against Application of the substance /	Identified uses: professional use.
the mixture	Filler and surfacer
1.3 Details of the supplier of the	safety data sheet
Manufacturer/Supplier:	Pacer - Car Clean Products NZ Ltd 33 Ha Crescent, Wiri, Auckland 2104 Phone: 09 25000 91 Email: sales@pacer.co.nz Website: www.pacer.co.nz
Further information obtainable from:	
1.4 Emergency telephone number:	National Poison Control Centre (24 hours) 0800 POISON (0800 764 766)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3

H226 Flammable liquid and vapour.



STOT RE 2

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



Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2H319 Causes serious eye irritation.

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

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

_ _ _ _ _ _ _ _ _ _

Hazard pictograms



(Contd. on page 2)

Page 2/15



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2021	V- 3.0 (replaces version 2.0)	Revision: 17.08.2021
Trade name: 4:1 FILLER		
Signal word	Warning	(Contd. of page 1)
Hazard datarmining company		
Hazard-determining compone of labelling:	Reaction mass of ethylbenzene and m-xylene and p-xy	vlene
Hazard statements	H226 Flammable liquid and vapour.	
	H315 Causes skin irritation.	
	H319 Causes serious eye irritation.	
	H373 May cause damage to organs through prolonged	l or repeated exposure.
	H412 Harmful to aquatic life with long lasting effects.	
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, oper sources. No smoking.	n flames and other ignition
	P260 Do not breathe mist/vapours/spray.	
	P271 Use only outdoors or in a well-ventilated area.	
	P280 Wear protective gloves/protective clothing/eye pr	rotection/face protection.
	P314 Get medical advice/attention if you feel unwell.	·
	P501 Dispose of contents/container in accordance with international regulations.	n local/regional/national/
Additional information:	Warning! Hazardous respirable droplets may be formed	d when sprayed. Do not breathe
	spray or mist.	
2.3 Other hazards		
Results of PBT and vPvB ass	essment	
PBT:	Not applicable.	
vPvB:	Not applicable.	

SECTION 3: Composition/information on ingredients

3.2 Mixtures Description:	Mixture of substances listed below with nonhazardous additions.	
Dangerous components:		
CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17	titanium dioxide & Carc. 2, H351	10-25%
List no.: 905-562-9 Reg.nr.: 01-2119555267-33	Reaction mass of ethylbenzene and m-xylene and p-xylene 3 📀 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. 2, H319; STOT SE 3, H335	5-15%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene	1-7.5%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate 🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336, EUH066	1-7.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226;	1-7.5%
-		entd. on page 3) EN —

WWW.pacer.co.nz PACER. For Professional Besults

Safety data sheet according to 1907/2006/EC, Article 31

	G	
rinting date 02.09.2021	V- 3.0 (replaces version 2.0)	Revision: 17.08.202
ade name: 4:1 FILLER		
		(Contd. of page
	trizinc bis(orthophosphate) 🌜 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-<2.59
	zinc oxide 🌜 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-<1
Additional information:	For the wording of the listed hazard phrases refer to se	ction 16.
<i>4.1 Description of first aid General information:</i>	Symptoms of poisoning may even occur after several h observation for at least 48 hours after the accident. Immediately remove any clothing soiled by the product.	
	In case of irregular breathing or respiratory arrest provi Take affected persons out of danger area and lay dowr	
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 thorou If skin irritation continues, consult a doctor.	ughly.
After eye contact:	Rinse opened eye for several minutes under running ware a doctor.	ater. If symptoms persist, consu
After swallowing: 4.2 Most important sympto and effects, both acute and		ely.
delayed 4.3 Indication of any imme medical attention and spec	No further relevant information available.	
treatment needed	No further relevant information available.	

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable	
extinguishing agents:	Water with full jet
5.2 Special hazards arising from	
the substance or mixture	Can form explosive gas-air mixtures.
	Formation of toxic gases is possible during heating or in case of fire. Carbon monoxide and carbon dioxide
5.3 Advice for firefighters	
Protective equipment:	Wear self-contained respiratory protective device.
	Do not inhale explosion gases or combustion gases.
Additional information	Cool endangered receptacles with water spray.
	Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
	Collect contaminated fire fighting water separately. It must not enter the sewage system.
	(Contd. on page



Printing date 02.09.2021

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

Trade name: 4:1 FILLER

(Contd. of page 3)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and	
emergency procedures	Mount respiratory protective device.
0 77	Wear protective equipment. Keep unprotected persons away.
	Ensure adequate ventilation
	Keep away from ignition sources.
	Avoid contact with the eyes and skin.
6.2 Environmental precautions:	Do not allow to enter sewers/ surface or ground water.
•	Inform respective authorities in case of seepage into water course or sewage system.
6.3 Methods and material for	
containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
	Do not flush with water or aqueous cleansing agents.
	Dispose of the material collected according to regulations.
6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe		
handling	Ensure good ventilation/exhaustion at the workplace.	
nananng	Ensure good interior ventilation, especially at floor level. (Fumes are hea	vier than air)
	Do not inhale gases / fumes / aerosols.	vier than any.
	Avoid contact with the eyes and skin.	
	Do not eat, drink, smoke or sniff while working.	
	Do not allow to enter sewers/ surface or ground water.	
Information about fire - and	De not allow to ontor coword, burrado or ground water.	
explosion protection:	Keep ignition sources away - Do not smoke.	
expression protocalem	Keep respiratory protective device available.	
	Fumes can combine with air to form an explosive mixture.	
7.2 Conditions for safe storage,	, including any incompatibilities	
Storage:		
Requirements to be met by		
storerooms and receptacles:	Store only in the original receptacle.	
Information about storage in or	ne	
common storage facility:	Store away from foodstuffs.	
	Store away from oxidising agents.	
Further information about		
storage conditions:	Store in cool, dry conditions in well sealed receptacles.	
-	Store receptacle in a well ventilated area.	
7.3 Specific end use(s)	No further relevant information available.	
		(Contd. on page 5)
		——————————————————————————————————————



Page 5/15

Printing date 02.09.2021

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

Trade name: 4:1 FILLER

(Contd. of page 4)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

13463-67-7 titanium dioxide

WEL (Great Britain) Long-term value: 10* 4** mg/m³ *total inhalable **respirable

Reaction mass of ethylbenzene and m-xylene and p-xylene

 WEL (Great Britain) Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
 IOELV (EU) Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin

1330-20-7 xylene

WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm
	Long-term value: 220 mg/m³, 50 ppm
	Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm

Long-term value: 221 mg/m³, 50 ppm Skin

123-86-4 n-butyl acetate

WEL (Great Britain) Short-term value: 966 mg/m³, 200 ppm
Long-term value: 724 mg/m³, 150 ppmIOELV (EU)Short-term value: 723 mg/m³, 150 ppm
Long-term value: 241 mg/m³, 50 ppm

108-65-6 2-methoxy-1-methylethyl acetate

WEL (Great Britain)		ıe: 548 mg/m³, 100 ppm e: 274 mg/m³, 50 ppm
IOELV (EU)		ie: 550 mg/m³, 100 ppm e: 275 mg/m³, 50 ppm
Regulatory inform	ation	WEL (Great Britain): EH40/2020 IOELV (EU): (EU) 2019/1831

DNELs

13463-67-7 titanium dioxide

Inhalative DNEL 10 mg/m3 (long-term - local effects, workers)

Reaction mass of ethylbenzene and m-xylene and p-xylene

Dermal DNEL 212 mg/kg bw/day (long-term - systemic effects, workers)

Inhalative DNEL 442 mg/m3 (acute - systemic effects, workers)

442 mg/m3 (acute - local effects, workers)

221 mg/m3 (long-term - systemic effects, workers)



Printing date 02.09.2021

Page 6/15

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

(Contd. of page 5)

Trade name: 4:1 FILLER

221 mg/m3 (long-term - local effects, workers)

1330-20-7 xylene

Dermal DNEL 212 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 442 mg/m3 (acute - systemic effects, workers) 442 mg/m3 (acute - local effects, workers) 221 mg/m3 (long-term - systemic effects, workers) 221 mg/m3 (long-term - local effects, workers)

123-86-4 n-butyl acetate

Dermal DNEL 7 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 960 mg/m3 (acute - systemic effects, workers) 960 mg/m3 (acute - local effects, workers) 480 mg/m3 (long-term - systemic effects, workers) 480 mg/m3 (long-term - local effects, workers)

108-65-6 2-methoxy-1-methylethyl acetate

Dermal DNEL 153.5 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 275 mg/m3 (long-term - systemic effects, workers)

7779-90-0 trizinc bis(orthophosphate)

Dermal DNEL 83 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 1 mg/m3 (long-term - systemic effects, workers)

1314-13-2 zinc oxide

Dermal DNEL 83 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 5 mg/m3 (long-term - systemic effects, workers)

PNECs

13463-67-7 titanium dioxide

PNEC 0.184 mg/l (freshwater environment)

0.0184 mg/l (marine environment)

0.193 mg/l (intermittent releases)

100 mg/l (sewage treatment plants)

PNEC 1,000 mg/kg (freshwater sediment environment)

100 mg/kg (marine sediment environment) 100 mg/kg (soil)

Reaction mass of ethylbenzene and m-xylene and p-xylene

 PNEC 6.58 mg/l (sewage treatment plants)
 PNEC 12.46 mg/kg (freshwater sediment environment) 12.46 mg/kg (marine sediment environment)
 PNEC 327 μg/l (freshwater environment) 327 μg/l (marine environment) 327 μg/l (intermittent releases)

WWW.pacer.co.nz PACER. For Professional Besuits

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2021

Page 7/15

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

(Contd. of page 6)

Trade name: 4:1 FILLER

1330-20-7 xylene

PNEC 0.327 mg/l (freshwater environment) 0.327 mg/l (marine environment) PNEC 12.46 mg/kg (freshwater sediment environment) 12.46 mg/kg (marine sediment environment)

123-86-4 n-butyl acetate

PNEC 0.18 mg/l (freshwater environment)
0.018 mg/l (marine environment)
0.36 mg/l (intermittent releases)
35.6 mg/l (sewage treatment plants)
PNEC 0.981 mg/kg (freshwater sediment environment)

108-65-6 2-methoxy-1-methylethyl acetate

PNEC 0.635 mg/l (freshwater environment) 0.0635 mg/l (marine environment) 6.35 mg/l (intermittent releases) 100 mg/l (sewage treatment plants) PNEC 3.29 mg/kg (freshwater sediment environment) 0.329 mg/kg (marine sediment environment)

7779-90-0 trizinc bis(orthophosphate)

PNEC 235.6 mg/kg (freshwater sediment environment) 113 mg/kg (marine sediment environment)

1314-13-2 zinc oxide

PNEC 0.0206 mg/l (freshwater environment)

0.0061 mg/l (marine environment)

0.1 mg/l (sewage treatment plants)

PNEC 117.8 mg/kg (freshwater sediment environment)

56.5 mg/kg (marine sediment environment) 35.6 mg/kg (soil)

Ingredients with biological limit values:

Reaction mass of ethylbenzene and m-xylene and p-xylene

BMGV (Great Britain) 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

1330-20-7 xylene

BMGV (Great Britain) 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid Regulatory information BMGV (Great Britain): EH40/2011

(Contd. on page 8)

Page 8/15



Safety data sheet according to 1907/2006/EC, Article 31

inting date 02.09.2021	V- 3.0 (replaces version 2.0)	Revision: 17.08.2021
ade name: 4:1 FILLER		
		(Contd. of page 7
Additional information:	The lists valid during the making were used as basis.	
8.2 Exposure controls		
Appropriate engineering		
controls	No further data; see item 7.	
Individual protection measur General protective and hygie	es, such as personal protective equipment nic	
measures:	Ensure good ventilation/exhaustion at the workplace.	
	Ensure good interior ventilation, especially at floor leve	I. (Fumes are heavier than air).
	Keep ignition sources away - Do not smoke.	, , , , , , , , , , , , , , , , , , ,
	Keep away from foodstuffs, beverages and feed.	
	Immediately remove all soiled and contaminated clothin	ng
	Wash hands before breaks and at the end of work.	
	Store protective clothing separately.	
	Do not inhale gases / fumes / aerosols.	
	Avoid contact with the eyes and skin.	
	Do not eat or drink while working.	
Respiratory protection:	In case of brief exposure or low pollution use respirator	
	intensive or longer exposure use self-contained respira	itory protective device.
	Filter A2/P2	
Hand protection	Protective gloves	
	Check the permeability prior to each anewed use of the	
	The glove material has to be impermeable and resistan the preparation.	it to the product/ the substance/
		nonatration timos ratas of
	Selection of the glove material on consideration of the diffusion and the degradation (EN 374).	perietration times, rates of
Material of gloves	Recommended thickness of the material: ≥ 0.7 mm	
material of gioves	The selection of the suitable gloves does not only depe	and on the material but also on
	further marks of quality and varies from manufacturer to	
	a preparation of several substances, the resistance of t	
	calculated in advance and has therefore to be checked	
Penetration time of glove		
material	Value for the permeation: Level 6 \geq 480 min.	
-	The exact break through time has to be found out by th	e manufacturer of the protective
	gloves and has to be observed.	
Eye/face protection	Tightly sealed goggles	
Body protection:	Protective work clothing	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information		
Physical state	Fluid	
Colour:	Different according to colouring	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling range	Undetermined.	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	1 Vol %	
Upper:	15 Vol %	
Flash point:	>23 °C	
Auto-ignition temperature:	Not determined.	

Page 9/15



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2021

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

Trade name: 4:1 FILLER

	(Contd. of page 8,
Decomposition temperature:	Not determined.
рH	Not applicable.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	10.7 hPa
Density and/or relative density	
Density at 20 °C:	1.58-1.62 g/cm³
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Highly viscous
Important information on protection of health and	
environment, and on safety.	
Explosive properties:	Product is not explosive. However, formation of explosive air/
	vapour mixtures are possible.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable g	ases
in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability 10.3 Possibility of hazardous	No decomposition if used according to specifications. No decomposition if used and stored according to specifications.	
reactions	Reacts with alkali, amines and strong acids.	
	Reacts with oxidising agents.	
10.4 Conditions to avoid	Fumes can combine with air to form an explosive mixture. Protect from heat and direct sunlight.	
10.5 Incompatible materials:	No further relevant information available.	
10.6 Hazardous decomposition	Carbon manavida and carbon diavida	
products:	Carbon monoxide and carbon dioxide	(Or and the manual di



Page 10/15

Printing date 02.09.2021

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

Trade name: 4:1 FILLER

(Contd. of page 9)

Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

13463-67-7 titanium dioxide

 Oral
 LD50
 >20,000 mg/kg (rat)

 Dermal
 LD50
 >10,000 mg/kg (rabbit)

 Inhalative
 LC50/4 h >6.82 mg/l (rat)

Reaction mass of ethylbenzene and m-xylene and p-xylene

Dermal LD50 1,100 mg/kg (ATE) Inhalative ATE 1.5 ATE

1330-20-7 xylene

DermalLD501,100 mg/kg (ATE)Inhalative ATE1.5 mg/l (dust/ mist)

123-86-4 n-butyl acetate

 Oral
 LD50
 10,760 mg/kg (rat)

 Dermal
 LD50
 >14,000 mg/kg (rabbit)

 Inhalative
 LC50/4 h 23.4 mg/l (rat)

108-65-6 2-methoxy-1-methylethyl acetate

 Oral
 LD50
 >5,000 mg/kg (rat)

 Dermal
 LD50
 >5,000 mg/kg (rabbit)

 Inhalative
 LC50/6 h 4,345 mg/l (rat)

7779-90-0 trizinc bis(orthophosphate)

Oral LD50 >5,000 mg/kg (rat)

1314-13-2 zinc oxide

Oral LD50 >5,000 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Based on available data, the classification criteria are not met.

(Contd. on page 11)



Page 11/15

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2021

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

(Contd. of page 10)

Trade name: 4:1 FILLER

11.2 Information on other hazards Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

13463-67-7 titanium dioxide

LC50/96 h >1,000 mg/l (fish) EC50/48 h >100 mg/l (Daphnia magna) EC50/72 h >50 mg/l (Desmodesmus subspicatus) EC50/15 min >100 mg/l (microorganisms)

Reaction mass of ethylbenzene and m-xylene and p-xylene

LC50/72 h 2.6-8.4 mg/l (fish) LC50/96h 3,300-4,093 μg/l (Oncorhynchus mykiss)

1330-20-7 xylene

LC50/96 h2.6 mg/l (Oncorhynchus mykiss) (OECD 203)EC50/3 h>157 mg/l (microorganisms)EC50/48 h>3.4 mg/l (Ceriodaphnia dubia) (OECD 202)EC50/73h2.2 mg/l (Pseudokirchnerella subcapitata) (OECD 201)

123-86-4 n-butyl acetate

LC50/96 h18 mg/l (Pimephales promelas)TT/16 h115 mg/l (Pseudomonas putida)EC50/48 h44 mg/l (daphnia)EC50/72 h675 mg/l (algae)

108-65-6 2-methoxy-1-methylethyl acetate

LC50/96 h >100 mg/l (fish)

EC50/48 h >500 mg/l (Daphnia magna)

EC20/30 min >1,000 mg/l (microorganisms)

EC50/72 h >1,000 mg/l (Pseudokirchnerella subcapitata)

EC50 >100 mg/l (Pseudokirchnerella subcapitata)

- >100 mg/l (Pimephales promelas)
- >100 mg/l (Daphnia magna)

7779-90-0 trizinc bis(orthophosphate)

- EC50/3 h 5.2 mg/l (microorganisms)
- EC50/48 h >2.34 mg/l (Daphnia magna)

1314-13-2 zinc oxide

LC50/96 h	4.92 mg/l (fish)
EC50/72 h	0.042 mg/l (Pseudokirchnerella subcapitata)



Printing date 02.09.2021

Page 12/15

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

(Contd. of page 11)

Trade name: 4:1 FILLER

 EC50/24 h
 9.4 mg/l (microorganisms)

 LC50/48 h
 1.55 mg/l (Daphnia magna)

12.2 Persistence and degradability

Reaction mass of ethylbenzene and m-xylene and p-xylene Biodegradation 75 % (readily biodegradable)

1330-20-7 xylene

Biodegradation >60 % (readily biodegradable)

123-86-4 n-butyl acetate

Biodegradation 83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)

108-65-6 2-methoxy-1-methylethyl acetate

Biodegradation 100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)

12.3 Bioaccumulative potential

1330-20-7 xylene BCF 25.9 log Kow <3.2

123-86-4 n-butyl acetate

BCF 15.3 (-) log Pow 2.3

108-65-6 2-methoxy-1-methylethyl acetate log Pow 0.56

12.4 Mobility in soil

123-86-4 n-butyl acetate log Koc 1.27

108-65-6 2-methoxy-1-methylethyl acetate

Koc 1.7

12.5 Results of PBT and vPvB a	ssessment
PBT:	Not applicable.
vPvB:	Not applicable.
12.6 Endocrine disrupting	
properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	
Additional ecological information	on:
General notes:	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

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Recommendation	Must not be disposed together with household garbage. Do not allow product to reach
	sewage system.



Printing date 02.09.2021

Page 13/15

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

(Contd. of page 12)

Trade name: 4:1 FILLER

European waste catalogue

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

Uncleaned packaging: Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA
14.2 UN proper shipping name
ADR
IMDG, IATA
14.3 Transport hazard class(es)

1263 PAINT PAINT

UN1263

ADR, IMDG, IATA



Class	3
Label	3
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
Marine pollutant (IMDG):	Yes
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number:	F-E,S- <u>E</u>
Stowage Category	A
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
UN "Model Regulation":	UN 1263 PAINT, 3, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture Directive 2012/18/EU		NEW ZEALAND Class 3.1C Class 6.3A Class 6.4A Class 6.9B Class 9.1C	: Flammable Liquid & Vapour Skin Irritant Eye Irritant Target Organ – Repeat Aquatic Toxicity
Named dangerous substances - ANNEX I	None of the ingredients is listed.	HSR002662	Surface Coating & Colourants (Flammable) (Contd. on page 14)

— EN —

Printing date 02.09.2021

Page 14/15

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

(Contd. of page 13)

Trade name: 4:1 FILLER

Seveso category

requirements

requirements

P5c FLAMMABLE LIQUIDS Qualifying quantity (tonnes) for the application of lower-tier 5.000 t Qualifying quantity (tonnes) for the application of upper-tier

50.000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

ure.

(Contd. on page 15) - EN -

Page 15/15



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2021

V- 3.0 (replaces version 2.0)

Revision: 17.08.2021

- EN ----

Trade name: 4:1 FILLER

(Contd. of page 14) Classification according to Regulation (EC) No 1272/2008 Flammable liquids Bridging principles Skin corrosion/irritation The classification of the mixture is generally based on the Serious eye damage/eye irritation calculation method using substance data according to Specific target organ toxicity (repeated exposure) Regulation (EC) No 1272/2008. Hazardous to the aquatic environment - long-term (chronic) aquatic hazard Version number of previous version: 2.0 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Abbreviations and acronyms: Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Carc. 2: Carcinogenicity. Hazard Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 Sources European Chemicals Agency, http://echa.europa.eu/ * Data compared to the previous

version altered.





inting date 20.04.2021	V- 3.0	Revision: 20.04.202
SECTION 1: Identification of	the substance/mixture and of the company/under	taking
1.1 Product identifier		
Trade name:	4:1 FILLER - HARDENER VERY FAST	
1.2 Relevant identified uses of the substance or mixture and		
uses advised against	Identified uses: professional use. Uses advised against: do-it-yourself	
Application of the substance /		
the mixture	Hardening agent/ Curing agent	
1.3 Details of the supplier of the	safety data sheet	
Manufacturer/Supplier:	Pacer - Car Clean Products NZ Ltd	
· · · · · · · · · · · · · · · · · · ·	33 Ha Crescent, Wiri, Auckland, New Zealand	
	Tel: 09 25000 91	
	www.pacer.co.nz	
Further information obtainable		
from:	sales@pacer.co.nz	
1.4 Emergency telephone		
number:	24 Hour Emergency Telephone Number NZ Poisons Cen	ntre: 0800 764 766
SECTION 2: Hazards identific	ation	

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225

Highly flammable liquid and vapour.



May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Acute Tox. 4H332Harmful if inhaled.Eye Irrit. 2H319Causes serious eye irritation.Skin Sens. 1H317May cause an allergic skin reaction.STOT SE 3H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

2.2 Label elements Labelling according to

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



Page 2/16



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

Trade name: 4:1 FILLER - HARDENER VERY FAST

	(Contd. of page 1)
Signal word	Danger
Hazard-determining component of labelling:	ts hexamethylene diisocyanate homopolymer n-butyl acetate toluene-diisocyanate aromatic polyisocyanate tosyl isocyanate
Hazard statements	 H225 Highly flammable liquid and vapour. H332 Harmful if inhaled. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
Precautionary statements	 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 In case of inadequate ventilation wear respiratory protection. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.
Additional information:	EUH066 Repeated exposure may cause skin dryness or cracking. Contains isocyanates. May produce an allergic reaction. As from 24 August 2023 adequate training is required before industrial or professional use.
2.3 Other hazards Results of PBT and vPvB asses	sment
PBT: vPvB:	Not applicable. Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Description:	Mixture of substances listed below with nonhazardous additions	
Dangerous componen	ts:	
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493	n-butyl acetate ♦ Flam. Liq. 3, H226; ♦ STOT SE 3, H336, EUH066 3-29	25-50%
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796	hexamethylene diisocyanate homopolymer () Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335 5-17	10-25%
CAS: 53317-61-6 NLP: 500-120-8	aromatic polyisocyanate () Eye Irrit. 2, H319; Skin Sens. 1, H317	10-<20%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; 1 STOT SE 3, H336	5-15%
Neg.m.: 01-2119410191		(Contd. on page 3)

Page 3/16



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.04.2021	V- 3.0 Revis	ion: 20.04.2021
Trade name: 4:1 FILLER - H	IARDENER VERY FAST	
		(Contd. of page 2
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103	ethyl acetate	1-5%
-	Reaction mass of ethylbenzene and xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 40 H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H3 34 Aquatic Chronic 3, H412	
CAS: 4083-64-1 EINECS: 223-810-8 Reg.nr.: 01-2119980050	tosyl isocyanate	0.1-<1% 1335,
CAS: 26471-62-5 EINECS: 247-722-4 Reg.nr.: 01-2119454791-	toluene-diisocyanate	0.1-<0.5% c 3,
Additional information:	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

4.1 Description of first aid measu	ires
General information:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. Take affected persons out of danger area and lay down.
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. If skin irritation continues, consult a doctor.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: 4.2 Most important symptoms and effects, both acute and	Do not induce vomiting; call for medical help immediately.
delayed 4.3 Indication of any immediate medical attention and special	No further relevant information available.
treatment needed	No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant
Suitable extinguishing agents:	foam.
For safety reasons unsuitable extinguishing agents:	Water with full jet

Page 4/16



Safety data sheet according to 1907/2006/EC, Article 31

 Printing date 20.04.2021
 V- 3.0
 Revision: 20.04.2021

 Trade name: 4:1 FILLER - HARDENER VERY FAST
 (Contd. of page 3)

(Contd. of page	; 3)
m	
Can form explosive gas-air mixtures.	
Formation of toxic gases is possible during heating or in case of fire.	
Hydrogen cyanide (HCN)	
Isocyanate vapors.	
Carbon monoxide and carbon dioxide	
Wear self-contained respiratory protective device.	
Do not inhale explosion gases or combustion gases.	
Cool endangered receptacles with water spray.	
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.	
Collect contaminated fire fighting water separately. It must not enter the sewage system.	
	 <i>m</i> Can form explosive gas-air mixtures. Formation of toxic gases is possible during heating or in case of fire. Hydrogen cyanide (HCN) Isocyanate vapors. Carbon monoxide and carbon dioxide Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and	
emergency procedures	Wear protective equipment. Keep unprotected persons away.
	Ensure adequate ventilation
	Keep away from ignition sources.
	Avoid contact with the eyes and skin.
6.2 Environmental precautions:	Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for	
containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
	Do not flush with water or aqueous cleansing agents.
	Dispose of the material collected according to regulations.
6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe	
handling	Ensure good ventilation/exhaustion at the workplace. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Do not allow to enter sewers/ surface or ground water.
Information about fire - and	,
explosion protection:	Keep ignition sources away - Do not smoke.
	Fumes can combine with air to form an explosive mixture.
7.2 Conditions for safe storage, Storage: Requirements to be met by	including any incompatibilities
storerooms and receptacles:	Store in a cool location.
•	Store only in the original receptacle.
Information about storage in or	ne la
common storage facility:	Store away from foodstuffs.
	Store away from oxidising agents.



Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

(Contd. of page 4)

Trade name: 4:1 FILLER - HARDENER VERY FAST

Further information about	
storage conditions:	Store in cool, dry
	Store receptacle
7.3 Specific end use(s)	No further releval

Store in cool, dry conditions in well sealed receptacles. Store receptacle in a well ventilated area. No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate

WEL (Great Britain) Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

IOELV (EU) Short-term value: 723 mg/m³, 150 ppm Long-term value: 241 mg/m³, 50 ppm

108-65-6 2-methoxy-1-methylethyl acetate

 WEL (Great Britain) Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk
 IOELV (EU) Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin

141-78-6 ethyl acetate

WEL (Great Britain)Short-term value: 1468 mg/m³, 400 ppmLong-term value:734 mg/m³, 200 ppmIOELV (EU)Short-term value: 1468 mg/m³, 400 ppm

Long-term value: 734 mg/m³, 200 ppm

1330-20-7 Reaction mass of ethylbenzene and xylene

WEL (Great Britain) Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV

IOELV (EU) Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin

4083-64-1 tosyl isocyanate

WEL (Great Britain) Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

26471-62-5 toluene-diisocyanate

WEL (Great Britain) Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

Regulatory information

WEL (Great Britain): EH40/2020 IOELV (EU): (EU) 2019/1831

(Contd. on page 6)

V- 3.0



Revision: 20.04.2021

(Contd. of page 5)

Trade name: 4:1 FILLER - HARDENER VERY FAST

DNELs

123-86-4 n-butyl acetate

Printing date 20.04.2021

Dermal DNEL 7 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 960 mg/m3 (acute - systemic effects, workers) 960 mg/m3 (acute - local effects, workers) 480 mg/m3 (long-term - systemic effects, workers) 480 mg/m3 (long-term - local effects, workers)

28182-81-2 hexamethylene diisocyanate homopolymer

Inhalative DNEL 1 mg/m3 (acute - local effects, workers) 0.5 mg/m3 (long-term - local effects, workers)

108-65-6 2-methoxy-1-methylethyl acetate

Dermal DNEL 153.5 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 275 mg/m3 (long-term - systemic effects, workers)

141-78-6 ethyl acetate

Dermal DNEL 63 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 1,468 mg/m3 (acute - systemic effects, workers) 1,468 mg/m3 (acute - local effects, workers) 734 mg/m3 (long-term - systemic effects, workers) 734 mg/m3 (long-term - local effects, workers)

1330-20-7 Reaction mass of ethylbenzene and xylene

Dermal DNEL 212 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 442 mg/m3 (acute - systemic effects, workers) 442 mg/m3 (acute - local effects, workers) 221 mg/m3 (long-term - systemic effects, workers) 221 mg/m3 (long-term - local effects, workers)

4083-64-1 tosyl isocyanate

Dermal DNEL 0.92 mg/kg bw/day (long-term - systemic effects, workers) Inhalative DNEL 3.24 mg/m3 (long-term - systemic effects, workers)

PNECs

123-86-4 n-butyl acetate PNEC 0.18 mg/l (freshwater environment) 0.018 mg/l (marine environment) 0.36 mg/l (intermittent releases) 35.6 mg/l (sewage treatment plants) PNEC 0.981 mg/kg (freshwater sediment environment)

28182-81-2 hexamethylene diisocyanate homopolymer

PNEC 0.127 mg/l (freshwater environment) 0.0127 mg/l (marine environment) 1.27 mg/l (intermittent releases) Page 7/16



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

(Contd. of page 6)

Trade name: 4:1 FILLER - HARDENER VERY FAST

38.3 mg/l (sewage treatment plants) PNEC 266,700 mg/kg (freshwater sediment environment) 26,670 mg/kg (marine sediment environment) 53,182 mg/kg (soil)

108-65-6 2-methoxy-1-methylethyl acetate

PNEC 0.635 mg/l (freshwater environment) 0.0635 mg/l (marine environment) 6.35 mg/l (intermittent releases) 100 mg/l (sewage treatment plants) PNEC 3.29 mg/kg (freshwater sediment environment) 0.329 mg/kg (marine sediment environment)

141-78-6 ethyl acetate

PNEC 0.24 mg/l (freshwater environment) 0.024 mg/l (marine environment) 1.65 mg/l (intermittent releases) 650 mg/l (sewage treatment plants) PNEC 1.15 mg/kg (freshwater sediment environment) 0.115 mg/kg (marine sediment environment)

1330-20-7 Reaction mass of ethylbenzene and xylene

PNEC 6.58 mg/l (sewage treatment plants)
 PNEC 12.46 mg/kg (freshwater sediment environment)
 12.46 mg/kg (marine sediment environment)
 PNEC 327 μg/l (freshwater environment)
 327 μg/l (intermittent releases)

4083-64-1 tosyl isocyanate

PNEC 0.03 mg/l (freshwater environment)

- 0.003 mg/l (marine environment)
- 0.3 mg/l (intermittent releases)
- 0.4 mg/l (sewage treatment plants)
- PNEC 0.0172 mg/kg (marine environment)
 - 0.172 mg/kg (freshwater sediment environment)

0.0168 mg/kg (soil)

Ingredients with biological limit values:

1330-20-7 Reaction mass of ethylbenzene and xylene

BMGV (Great Britain) 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid Regulatory information BMGV (Great Britain): EH40/2011

Additional information:

The lists valid during the making were used as basis.

Page 8/16



For Professional Base Its

Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

(Contd. of page 7)

Trade name: 4:1 FILLER - HARDENER VERY FAST

8.2 Exposure controls	
Appropriate engineering	
controls	No further data; see item 7.
Individual protection measure	es, such as personal protective equipment
General protective and hygier	nic
measures:	Ensure good ventilation/exhaustion at the workplace.
	Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
	Keep ignition sources away - Do not smoke.
	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.
	Avoid contact with the eyes and skin.
	Do not eat or drink while working.
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 A2/P2
Hand protection	Protective gloves
	Check the permeability prior to each anewed use of the glove.
	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 (EN 374).
Material of gloves	Butyl rubber, BR
3	Nitrile rubber. NBR
	PVA gloves
	Recommended thickness of the material: > 0.7 mm
	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	Value for the permeation: Level 6 \geq 480 min.
	The exact break through time has to be found out by the manufacturer of the protective
	gloves and has to be observed.
Eye/face protection	Tightly sealed goggles
Body protection:	Protective work clothing
===; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information		
Physical state	Fluid	
Colour:	Colourless	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling range	Undetermined.	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	1 Vol %	
Upper:	15 Vol %	
Flash point:	21 °C	
Auto-ignition temperature:	Not determined.	



Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

Trade name: 4:1 FILLER - HARDENER VERY FAST

	(Contd. of page a	
Decomposition temperature:	Not determined.	
рH	Not applicable.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure at 20 °C:	98 hPa	
Density and/or relative density		
Density at 20 °C:	0.92-1.01 g/cm³	
Vapour density	Not determined.	
9.2 Other information		
Appearance:		
Form:	Fluid	
Important information on protection of health an	nd	
environment, and on safety.		
Explosive properties:	Product is not explosive. However, formation of explosive air/	
	vapour mixtures are possible.	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard class	ses	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Highly flammable liquid and vapour.	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable	e gases	
in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability 10.3 Possibility of hazardous	No decomposition if used according to specifications. No decomposition if used and stored according to specifications.	
reactions	Reacts with water. Reacts with alkali, amines and strong acids. Reacts with oxidising agents.	
10.4 Conditions to avoid 10.5 Incompatible materials:	Freacts with oxidising agents. Fumes can combine with air to form an explosive mixture. Protect from heat and direct sunlight. No further relevant information available.	
		(Control on normal



Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

(Contd. of page 9)

Trade name: 4:1 FILLER - HARDENER VERY FAST

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicityHarmful if inhaled.LD/LC50 values relevant for classification:123-86-4 n-butyl acetateOralLD5010,760 mg/kg (rat)

 Orai
 LD50
 10,760 mg/kg (rat)

 Dermal
 LD50
 >14,000 mg/kg (rabbit)

 Inhalative
 LC50/4 h 23.4 mg/l (rat)

28182-81-2 hexamethylene diisocyanate homopolymer

 Oral
 LD50
 >2,500 mg/kg (rat)

 Dermal
 LD50
 >2,000 mg/kg (rat)

 Inhalative ATE
 1.5 mg/l (dust/ mist)

53317-61-6 aromatic polyisocyanate

Oral LD50 >5,000 mg/kg (rat)

108-65-6 2-methoxy-1-methylethyl acetate

 Oral
 LD50
 >5,000 mg/kg (rat)

 Dermal
 LD50
 >5,000 mg/kg (rabbit)

 Inhalative
 LC50/6 h 4,345 mg/l (rat)

141-78-6 ethyl acetate

 Oral
 LD50
 6,100 mg/kg (rat)

 Dermal
 LD50
 >20,000 mg/kg (rabbit)

 Inhalative
 LC50/6 h 58 mg/l (rat)

1330-20-7 Reaction mass of ethylbenzene and xylene

 Oral
 LD50
 3,523-4,000 mg/kg (rat)

 Dermal
 LD50
 12,126 mg/kg (rabbit)

 Inhalative ATE
 1.5 mg/l (dust/ mist)

4083-64-1 tosyl isocyanate

 Oral
 LD50
 2,330 mg/kg (rat)

 Dermal
 LD50
 >2,000 mg/kg (rat)

26471-62-5 toluene-diisocyanate

 Oral
 LD50
 5,110 mg/kg (rat)

 Dermal
 LD50
 >9,400 mg/kg (rabbit)

 Inhalative ATE
 0.005 mg/l (dust/ mist)

Primary irritant effect:

Skin corrosion/irritation Serious eye damage/irritation Based on available data, the classification criteria are not met. Causes serious eye irritation.



Printing date 20.04.2021	V- 3.0	Revision: 20.04.2021
Trade name: 4:1 FILLER - HARI	DENER VERY FAST	
		(Contd. of page 10)
Respiratory or skin sensitis	ation May cause allergy or asthma symptoms or brea	athing difficulties if inhaled.
	May cause an allergic skin reaction.	
Germ cell mutagenicity	Based on available data, the classification crite	ria are not met.
Carcinogenicity	Based on available data, the classification crite	eria are not met.

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Reproductive toxicity STOT-single exposure STOT-repeated exposure	Based on available data, the classification criteria are not met. May cause respiratory irritation. May cause drowsiness or dizziness. Based on available data, the classification criteria are not met.

11.2 Information on other hazards Endocrine disrupting properties None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

123-86-4 n-butyl acetate

LC50/96 h	18 mg/l (Pimephales promelas)
TT/16 h	115 mg/l (Pseudomonas putida)
EC50/48 h	44 mg/l (daphnia)
EC50/72 h	675 mg/l (algae)

53317-61-6 aromatic polyisocyanate

EC50 >10,000 mg/l (microorganisms)

108-65-6 2-methoxy-1-methylethyl acetate

LC50/96 h	>100 mg/l (fish)
EC50/48 h	>500 mg/l (Daphnia magna)
EC20/30 min	>1,000 mg/l (microorganisms)
EC50/72 h	>1,000 mg/l (Pseudokirchnerella subcapitata)
EC50	>100 mg/l (Pseudokirchnerella subcapitata)
	>100 mg/l (Pimephales promelas)
	>100 mg/l (Daphnia magna)

141-78-6 ethyl acetate

- LC50/96 h 230 mg/l (Pimephales promelas)
- EC50/48 h 165 mg/l (Daphnia cucullata)
- EC50/72 h >900 mg/l (Scenedesmus subspicatus)
- EC3/16 h 650 mg/l (Pseudomonas putida)

1330-20-7 Reaction mass of ethylbenzene and xylene

- EC50/72 h 4.6-4.9 mg/l (microorganisms)
- EC50/73h 2.2-4.36 mg/l (algae)

4083-64-1 tosyl isocyanate

EC50/48 h	>100 mg/l (Daphnia magna)
EC50/72 h	30 mg/l (Pseudokirchnerella subcapitata)

Page 12/16



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

(Contd. of page 11)

Trade name: 4:1 FILLER - HARDENER VERY FAST

LC50/48 h >45 mg/l (fish)

26471-62-5 toluene-diisocyanate

 LC50/96 h
 133 mg/l (fish)

 EC50/3 h
 >100 mg/l (microorganisms)

 ErC50/96 h
 4,300 mg/l (Chlorella vulgaris)

 EC50/48 h
 12.5 mg/l (Daphnia magna)

12.2 Persistence and degradability

123-86-4 n-butyl acetate

Biodegradation 83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)

28182-81-2 hexamethylene diisocyanate homopolymer

Biodegradation 1 % (not readily biodegradable) (OECD 301 C, 28 d, aerobic)

53317-61-6 aromatic polyisocyanate

Biodegradation 34 % (not readily biodegradable)

108-65-6 2-methoxy-1-methylethyl acetate

Biodegradation 100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)

141-78-6 ethyl acetate

Biodegradation 93.9 % (readily biodegradable) (OECD 301 B, aerobic)

1330-20-7 Reaction mass of ethylbenzene and xylene

Biodegradation 87.8 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)

4083-64-1 tosyl isocyanate

Biodegradation 86 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)

26471-62-5 toluene-diisocyanate

Biodegradation 0 % (not readily biodegradable) (OECD 302 C, 28 d, aerobic)

12.3 Bioaccumulative potential

123-86-4 n-butyl acetate BCF 15.3 (-) log Pow 2.3

28182-81-2 hexamethylene diisocyanate homopolymer BCF 3.2 (-)

log Kow 9.81 (Kow)

108-65-6 2-methoxy-1-methylethyl acetate log Pow 0.56

141-78-6 ethyl acetate BCF 30 (-) *log Pow 0.66*

(Contd. on page 13)

Page 13/16



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

Trade name: 4:1 FILLER - HARDENER VERY FAST

	(Contd. of page 12)
12.4 Mobility in soil	
123-86-4 n-butyl acetate	
log Koc 1.27	
108-65-6 2-methoxy-1-methyle	thyl acetate
Koc 1.7	
12.5 Results of PBT and vPvB	assessment
PBT:	Not applicable.
vPvB:	Not applicable.
12.6 Endocrine disrupting	
properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	
Additional ecological information	tion:
General notes:	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 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 hazardous substances
Uncleaned packaging:	

Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA
14.2 UN proper shipping name
ADR
IMDG, IATA
14.3 Transport hazard class(es)

UN1263

3 3

1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL

ADR, IMDG, IATA



Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant (IMDG): 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number:

II Not applicable. No Warning: Flammable liquids. 33 F-E,<u>S-E</u> Page 14/16



Safety data sheet according to 1907/2006/EC, Article 31

inting date 20.04.2021	V- 3.0	Revision: 20.04.2021
Trade name: 4:1 FILLER - HARDENER VERY FAST		
94	2	(Contd. of page 13
Stowage Category	В	
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	5L	
Transport category	2	
Tunnel restriction code	D/E	
IMDG		
Limited quantities (LQ)	1L	
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3,	11

environmental regulations/		<u>NEW ZEALAN</u>	ID:
legislation specific for the substance or mixture Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for	None of the ingredients is listed. P5c FLAMMABLE LIQUIDS	Class 3.1B Class 6.5A Class 6.1D Class 6.4A Class 6.5B Class 6.9B	Highly flammable Liquid & Vapour Respiratory Sensitiser Inhalation Eye Irritation Skin Sensitiser Narcotic Effects
the application of lower-tier requirements Qualifying quantity (tonnes) for	5,000 t	HSR002662 (Flammable)	Surface Costings & colourants
the application of upper-tier requirements	50,000 t		
REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3, 74		
DIRECTIVE 2011/65/EU on the re	striction of the use of certain hazardous	substances in e	electrical and electronic
equipment – Annex II			
None of the ingredients is listed.			
REGULATION (EU) 2019/1148 <u>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</u> None of the ingredients is listed.			
Annex II - REPORTABLE EXPLO	SIVES PRECURSORS		
None of the ingredients is listed.			

National regulations:

Information about limitation of

use:

Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed. (Contd. on page 15)



Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

(Contd. of page 14)

Trade name: 4:1 FILLER - HARDENER VERY FAST

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 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.
	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.
	H330 Fatal if inhaled.
	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.
	H351 Suspected of causing cancer.
	H373 May cause damage to organs through prolonged or repeated exposure.
	H412 Harmful to aquatic life with long lasting effects.
	EUH014 Reacts violently with water.
	EUH066 Repeated exposure may cause skin dryness or cracking.
	EUH204 Contains isocyanates. May produce an allergic reaction.
	-

Classification according to Regulation (EC) No 1272/2008

Flammable liquids	Bridging principles
Acute toxicity - inhalation Serious eye damage/eye irritation Respiratory sensitisation Skin sensitisation Specific target organ toxicity (singl	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. e exposure)
Version number of previous version:	2.1
Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods INCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNE: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Level (REACH) LC50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eve Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Sensitisation - Respiratory. Hazard category 1



Printing date 20.04.2021

V- 3.0

Revision: 20.04.2021

- EN ----

Trade name: 4:1 FILLER - HARDENER VERY FAST

(Contd. of page 15) Skin Sens. 1: Sensitisation - Skin. Hazard Category 1 Carc. 2: Carcinogenicity. Hazard Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 Sources European Chemicals Agency, http://echa.europa.eu/ * Data compared to the previous

version altered.