

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

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

1.1 Product identifier

Trade name: **SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: professional use.

Uses advised against: do-it-yourself use

Application of the substance / the mixture

Hardening agent/ Curing agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: **Paintsmart Group Ltd**
10 Barberry Street, Judea, Tauranga
Phone 07 571 8921
Email admin@paintsmart.co.nz

Further information obtainable from:

1.4 Emergency telephone number:

24HRS EMERGENCY TELEPHONE NUMBER:
National Poisons Centre: 0800 POISON [764 766]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

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

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

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

Hazard pictograms



GHS02 GHS07

Signal word

Danger

Hazard-determining components of labelling:

hexamethylene diisocyanate homopolymer
n-butyl acetate
aromatic polyisocyanate
tosyl isocyanate

(Contd. on page 2)

— EN —

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 1)

toluene-diisocyanate

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
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.

2.3 Other hazards
Results of PBT and vPvB assessment
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: 123-86-4	n-butyl acetate	25-50%
EINECS: 204-658-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	
Reg.nr.: 01-2119485493-29		
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	10-<20%
EINECS: 203-603-9	Flam. Liq. 3, H226; STOT SE 3, H336	
Reg.nr.: 01-2119475791-29		
CAS: 28182-81-2	hexamethylene diisocyanate homopolymer	10-<20%
NLP: 500-060-2	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
Reg.nr.: 01-2119488934-20		
01-2119485796-17		
CAS: 53317-61-6	aromatic polyisocyanate	10-<20%
NLP: 500-120-8	Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 141-78-6	ethyl acetate	1-7.5%
EINECS: 205-500-4	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	
Reg.nr.: 01-2119475103-46		
CAS: 4083-64-1	tosyl isocyanate	0.1-<1%
EINECS: 223-810-8	Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335, EUH014, EUH204	
Reg.nr.: 01-2119980050-47		
	Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % STOT SE 3; H335: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	

(Contd. on page 3)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 2)

CAS: 26471-62-5	toluene-diisocyanate	0.01-<0.05%
EINECS: 247-722-4	 Acute Tox. 1, H330;  Resp. Sens. 1, H334; Carc. 2, H351;  Skin Irrit. 2,	
Reg.nr.: 01-2119454791-34	H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412, EUH204	
	Specific concentration limit: Resp. Sens. 1; H334: C ≥ 0.1 %	

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 measures

General information:	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:	Do not induce vomiting; call for medical help immediately.
4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.
4.3 Indication of any immediate medical attention and special 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.
Use fire extinguishing methods suitable to surrounding conditions.

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.
Hydrogen cyanide (HCN)
Vapours of isocyanates.
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 4)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 3)

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, including any incompatibilities**Storage:****Requirements to be met by
storerooms and receptacles:**

*Store in a cool location.
Store only in the original receptacle.*

**Information about storage in one
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)

— EN —

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 4)

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 ppm
Long-term value: 734 mg/m³, 200 ppm

IOELV (EU) Short-term value: 1468 mg/m³, 400 ppm
Long-term value: 734 mg/m³, 200 ppm

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

DNELs**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)

(Contd. on page 6)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 5)

28182-81-2 hexamethylene diisocyanate homopolymerInhalative DNEL 1 mg/m³ (acute - local effects, workers)0.5 mg/m³ (long-term - local 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)**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)

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)

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)

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)

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)

(Contd. on page 7)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 6)

0.115 mg/kg (marine sediment environment)

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)

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Appropriate engineering controls**

No further data; see section 7.

Individual protection measures, such as personal protective equipment**General protective and hygienic 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.

A2/P2 filter

Hand protection

Protective gloves

Check the permeability prior to each renewed use of the glove.

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

When choosing protective gloves, the breakthrough time, rate of penetration and degradation (EN 374) should be taken into account.

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

PVA gloves

Recommended material thickness: ≥ 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 materialPermeation level and breakthrough time: level 6 ≥ 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

(Contd. on page 8)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 7)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Fluid
Colour:	Colourless/light yellow
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	77 °C (141-78-6 ethyl acetate)
Flammability	Highly flammable.
Lower and upper explosion limit	
Lower:	1.2 Vol % (123-86-4 n-butyl acetate)
Upper:	15 Vol % (123-86-4 n-butyl acetate)
Flash point:	<23 °C
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Reacts with water.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	98 hPa (141-78-6 ethyl acetate)
Vapour pressure at 50 °C:	55 hPa
Density and/or relative density	
Density at 20 °C:	0.99-1.02 g/cm ³
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined.
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	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 gases in contact with water	Void

(Contd. on page 9)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 8)

Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity	No decomposition if used according to specifications.
10.2 Chemical stability	No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions	Reacts with water. Reacts with alkali, amines and strong acids. Reacts with oxidising agents. Fumes can combine with air to form an explosive mixture.
10.4 Conditions to avoid	Protect from heat and direct sunlight.
10.5 Incompatible materials:	No further relevant information available.
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 toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

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)

28182-81-2 hexamethylene diisocyanate homopolymer

Oral	LD50	>2,500 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	11 mg/l (ATE)

53317-61-6 aromatic polyisocyanate

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

(Contd. on page 10)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 9)

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 LC50/4 h 0.107 mg/l (rat) (vapour)
LD50/1 h 0.47 mg/l (rat) (vapour)

Primary irritant effect:

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
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 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.

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 (fish)
TT/16 h 115 mg/l (microorganisms)
EC50/48 h 44 mg/l (daphnia)
EC50/72 h 675 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 (algae)
EC50 >100 mg/l (algae)
>100 mg/l (fish)
>100 mg/l (Daphnia magna)

53317-61-6 aromatic polyisocyanate

EC50 >10,000 mg/l (microorganisms)

(Contd. on page 11)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 10)

141-78-6 ethyl acetate

LC50/96 h 230 mg/l (fish)
EC50/48 h 165 mg/l (*Daphnia cucullata*)
EC50/72 h >900 mg/l (*Scenedesmus subspicatus*)
EC3/16 h 650 mg/l (microorganisms)

4083-64-1 tosyl isocyanate

EC50/48 h >100 mg/l (*Daphnia magna*)
EC50/72 h 30 mg/l (algae)
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)

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

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

141-78-6 ethyl acetate

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

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

log Pow 0.56

(Contd. on page 12)

— EN —

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 11)

28182-81-2 hexamethylene diisocyanate homopolymer

BCF 3.2 (-)

log Kow 9.81 (Kow)

141-78-6 ethyl acetate

BCF 30 (-)

log Pow 0.66

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 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:

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 UN1263

14.2 UN proper shipping name

ADR 1263 PAINT RELATED MATERIAL
IMDG, IATA PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class

3

(Contd. on page 13)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 12)

Label	3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	F-E, S-E
Stowage Category	B
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)	5L
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
Seveso category P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

NEW ZEALAND:
HSR002662 Surface Coatings and Colourants (Flammable)

REGULATION (EC) No 1907/2006
ANNEX XVII Conditions of restriction: 3, 74

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.

(Contd. on page 14)

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

Printing date 12.09.2023

V- 1.0

Revision: 08.09.2023

Trade name: SMARTLINE PREMIUM 4:1 PRIMER FILLER HARDENER FAST

(Contd. of page 13)

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug 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 Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

The above information is based on currently available data characterising the product. They do not constitute a guarantee or quality specification. It should be regarded as a guideline for safe use, storage, transport, disposal in case of release into the environment. It is the responsibility of the user to create conditions for the safe use of the product and the user accepts responsibility for any consequences resulting from improper use of this product.

Relevant phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
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.
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

Serious eye damage/irritation

Skin sensitisation

Specific target organ toxicity (single exposure)

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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 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 number assigned to the chemical in the Chemical Abstracts Service list
DNEL: Derived No-Effect Level

(Contd. on page 15)

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according to 1907/2006/EC, Article 31

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(Contd. of page 14)

PNEC: Predicted No-Effect Concentration
LC50: median lethal concentration
LD50: lethal dose 50%
PBT: persistent, bioaccumulative and toxic
vPvB: very persistent and very bioaccumulative
Flam. Liq. 2: Flammable liquid substance. Hazard category 2
Flam. Liq. 3: Flammable liquid substance. Hazard category 3
Acute Tox. 1: Acute toxicity. Hazard category 1
Acute Tox. 4: Acute toxicity. Hazard category 4
Skin Irrit. 2: Skin corrosion/irritation. Hazard category 2
Eye Irrit. 2: Serious eye damage/eye irritation. Hazard category 2
Resp. Sens. 1: Respiratory sensitisation. Hazard category 1
Skin Sens. 1: Skin sensitisation. Hazard category 1
Carc. 2: Carcinogenicity. Hazard category 2
STOT SE 3: Toxic effects on target organs - single exposure. Hazard category 3
Aquatic Chronic 3: Presenting a hazard to the aquatic environment. Chronic hazard, Category 3

Sources*European Chemicals Agency, <http://echa.europa.eu/>*

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