



SAFETY DATA SHEET

SCIGRIP® PPX5 ULTIMATE PLASTIC BONDER

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Compilation date: 28/05/2013

Revision date: 18/12/2014

Revision No: 4

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

1.1. Product identifier

Product name: SCIGRIP® PPX5 ULTIMATE PLASTIC BONDER

Product code: PPX5

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

Use of substance / mixture: PC1: Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Scigrip Adhesives Ltd

Unit 22 Bentall Business Park

Glover Road

Washington

Tyne & Wear

NE37 3JD

England

Tel: +44(0)191 419 6444

Fax: +44(0)191 419 6445

Email: technical.supportuk@scigrip.com

1.4. Emergency telephone number

Emergency tel: CHEMTEL Tel: 813-248-0573 (International)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: Xi: R36/37/38; Sens.: R43; Xn: R62

Classification under CLP: Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Repr. 1B: H360Df; STOT SE 3: H335

Most important adverse effects: Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.
Possible risk of impaired fertility.

2.2. Label elements

Label elements under CLP:

Hazard statements: H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H360Df: May damage the unborn child. Suspected of damaging fertility.

H412: Harmful to aquatic life with long lasting effects.

[cont...]

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Signal words: Danger

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard



Precautionary statements: P201: Obtain special instructions before use.

P261: Avoid breathing vapours.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

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

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical advice/attention.

Label elements under CHIP:

Hazard symbols: Harmful.



Risk phrases: R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitisation by skin contact.

R62: Possible risk of impaired fertility.

Safety phrases: S36/37: Wear suitable protective clothing and gloves.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

TETRAHYDROFURFURYL METHACRYLATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
219-529-5	2455-24-5	Xi: R36/37/38; Xn: R62	Repr. 1B: H360Df; Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335	30-50%

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2-ETHYLHEXYL METHACRYLATE - REACH registered number(s): 01-2119490166-35

211-708-6	688-84-6	Xi: R36/37/38	Skin Sens. 1: H317	10-30%
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MONO-2-METHACRYLOYL OXYETHYL HYDROGEN SUCCINATE

244-096-4	20882-04-6	Xi: R36/37/38; Sens.: R43	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Sens. 1: H317	1-10%
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URETHANE ACRYLATE OLIGOMER

-	-	Xi: R36/37/38; Sens.: R43	Skin Irrit. 2: H315; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Sens. 1: H317	1-10%
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MALEIC ACID

203-742-5	110-16-7	Xn: R22; Xi: R36/37/38; Sens.: R43	Acute Tox. 4: H302; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Skin Sens. 1: H317	1-10%
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BORAN, TRIETHYL(1,3-PROPANEDIAMINE-.KAPPA.N)-,(T-4)-

202-620-9	148861-07-8	Xn: R21; C: R35; Sens.: R43	Acute Tox. 4: H312; Skin Corr. 1A: H314	1-10%
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BENZYL METHACRYLATE

219-674-4	2495-37-6	Xi: R36/37/38; Sens.: R43	Skin Irrit. 2: H315; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Sens. 1B: H317	1-10%
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TRIMETHYLENEDIAMINE

203-702-7	109-76-2	-: R10; Xn: R22; T: R24; C: R35	Flam. Liq. 3: H226; Acute Tox. 4: H302; Acute Tox. 2: H310; Skin Corr. 1A: H314	<1%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

[cont...]

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4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): PC1: Adhesives, sealants.

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Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: White

Odour: Characteristic odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

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10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

2-ETHYLHEXYL METHACRYLATE

ORAL	RAT	LD50	>2000	mg/kg
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MALEIC ACID

DERMAL	RBT	LD50	1560	mg/kg
ORAL	RAT	LD50	708	mg/kg
VAPOURS	RBT	1H LC50	>720	mg/m3

BENZYL METHACRYLATE

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	5000	mg/kg

TRIMETHYLENEDIAMINE

DERMAL	RBT	LD50	177	mg/kg
ORAL	RAT	LD50	700	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT INH DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated
Toxicity for reproduction	--	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

2-ETHYLHEXYL METHACRYLATE

Daphnia magna	48H EC50	4.56	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H IC50	7.68	mg/l
JAPANESE RICE FISH	96H LC50	2.78	mg/l

MALEIC ACID

DAPHNIA MAGNA	48H EC50	42.81	mg/l
FATHEAD MINNOW (Pimephales promelas)	96H LC50	5	mg/l
Pseudokirchnerella subcapitata	72H EC50	74.35	mg/l

BENZYL METHACRYLATE

Pimephales promelas	48H LC50	4.67	mg/l
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TRIMETHYLENEDIAMINE

DAPHNIA MAGNA	48H EC50	27	mg/l
PIMEPHALES PROMELAS	96H LC50	1190	mg/l
SCENEDESMUS SUBSPICATUS	72H EC50	175.1	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

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Section 14: Transport information

14.1. UN number

UN number: Not Classified.

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H310: Fatal in contact with skin.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H360Df: May damage the unborn child. Suspected of damaging fertility.

H412: Harmful to aquatic life with long lasting effects.

R10: Flammable.

R21: Harmful in contact with skin.

R22: Harmful if swallowed.

[cont...]

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R24: Toxic in contact with skin.

R35: Causes severe burns.

R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitisation by skin contact.

R62: Possible risk of impaired fertility.

Legend to abbreviations: PNEC = predicted no effect level

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

IVN = intravenous

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular/corneal

PCP = physico-chemical properties

Legal disclaimer: This company shall not be held liable for any damage resulting from handling or from contact with the above product.