

Fix All Crystal

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: Fix All Crystal

1.2 Use of the substance/preparation:

Sealant
Adhesive

1.3 Company/undertaking identification:

SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
Tel: +32 14 42 42 31
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msds@soudal.com

1.4 Emergency telephone:

24h/24h: +32 14 58 45 45 (BIG)

2. Hazards identification

DSD/DPD

Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

3. Composition/information on ingredients

Name	CAS No EINECS/ELINCS	Conc.	Classification according to DSD/DPD	Classification according to CLP	Note
trimethoxyvinylsilane	2768-02-7 220-449-8	1%<C<20%	Xn; R20 R10	Flam. Liq. 3; H226 Acute Tox. 4; H332	(1)
dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4 245-152-0	0.1%<C<1%	Xi; R36/38 Xn; R48/22 N; R51-53	STOT RE 2; H373 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	(1)(2)

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

4. First aid measures

4.1 After inhalation:

Remove the victim into fresh air
Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

Rinse with water
Take victim to a doctor if irritation persists

4.3 Eye contact:

Rinse with water
Take victim to an ophthalmologist if irritation persists

4.4 After ingestion:

Rinse mouth with water
Consult a doctor/medical service if you feel unwell

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5. Fire-fighting measures

5.1 Suitable extinguishing media:

- Water spray
- Polyvalent foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known

5.3 Special exposure hazards:

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide)

5.4 Instructions:

Dilute toxic gases with water spray

5.5 Special protective equipment for fire-fighters:

- Gloves
- Protective clothing
- Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal precautions:

See heading 8.2

6.2 Environmental precautions:

Use appropriate containment to avoid environmental contamination
See heading 13

6.3 Methods for cleaning up:

- Scoop solid spill into closing containers
- Clean contaminated surfaces with a soap solution
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

- Keep away from naked flames/heat
- Observe normal hygiene standards

7.2 Storage:

Safe storage requirements:

- Store in a dry area
- Meet the legal requirements
- Store at room temperature
- Max. storage time: 1 year(s)

Keep away from:

- water/moisture

Suitable packaging material:

- synthetic material

7.3 Specific use(s):

See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

If limit values are applicable and available these will be listed below.

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Indicative exposure limit (the Netherlands)

Tinverbindingen (organisch)(als Sn)	Short time value	0.2 mg/m ³
	Time-weighted average exposure limit 8 h	0.1 mg/m ³

Limit Value (Belgium)

Tin(organische verbindingen) (als Sn)	Short time value	- ppm 0.2 mg/m ³
	Time-weighted average exposure limit 8 h	- ppm 0.1 mg/m ³

TLV (USA)

Tin organic compounds, as Sn	Short time value	0.2 ppm
	Time-weighted average exposure limit 8 h	0.1 ppm

Limit Value (France)

Etain,(composés organiques d'),en Sn	Short time value	-(Sn) ppm 0.2(Sn) mg/m ³
	Time-weighted average exposure limit 8 h	-(Sn) ppm 0.1(Sn) mg/m ³

Limit Value (UK)

Tin compounds, organic, except cyhexatin(ISO)(as Sn)	Short time value	-(Sn) ppm 0.2(Sn) mg/m ³
	Time-weighted average exposure limit 8 h	-(Sn) ppm 0.1(Sn) mg/m ³

8.1.2 Sampling methods:

Product name	Test	Number	Remark
No data available			

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Personal protective equipment:

- a) Respiratory protection:
Respiratory protection not required in normal conditions
- b) Hand protection:
Gloves
- c) Eye protection:
Safety glasses
- d) Skin protection:
Protective clothing

8.2.2 Environmental exposure controls:

See headings 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Physical form	Paste
Odour	Characteristic odour
Colour	Colourless

9.2 Important health, safety and environmental information:

Flashpoint	> 240 °C
Relative density	1.1

9.3 Other information:

10. Stability and reactivity

10.1 Conditions to avoid:

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Possible fire hazard

heat sources

Stability

Stable under normal conditions

10.2 Materials to avoid:

water/moisture

10.3 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide)

11. Toxicological information

11.1 Acute toxicity:

trimethoxyvinylsilane

LD50 dermal (rat)	3434 mg/kg
LC50 inhalation (rat)	16 mg/l/4h

11.2 Chronic toxicity:

Not listed in carcinogenicity class (IARC,EC,TLV,MAK)

Not listed in mutagenicity class (EC,MAK)

Not classified as toxic to reproduction (EC)

dibutylbis(pentane-2,4-dionato-O,O')tin

MAK - Schwangerschaft Gruppe	D
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11.3 Acute effects/symptoms:

Inhalation:

No data available

Skin contact:

No data available

Eye contact:

Redness of the eye tissue

Ingestion:

AFTER ABSORPTION OF HIGH QUANTITIES:

Gastrointestinal complaints

11.4 Chronic effects:

No effects known

12. Ecological information

12.1 Ecotoxicity:

trimethoxyvinylsilane

LC50 fishes

species	value	duration (h)	remarks
BRACHYDANIO RERIO	>= 100 mg/l	96 h	

EC50 Daphnia

species	value	duration (h)	remarks
DAPHNIA MAGNA	168.7 mg/l	48 h	OECD 202

Threshold limit algae

species	value	duration (h)	remarks
SCENEDESMUS SUBSPICATUS	> 957 mg/l	72 h	

12.2 Mobility:

Volatile organic compounds (VOC)

< 2 %

12.3 Persistence and degradability:

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Biodegradability in water: no data available

12.4 Bioaccumulative potential:

No bioaccumulation data available

12.5 Results of PBT assessment:

Not applicable, based on available data

12.6 Other adverse effects:

Not dangerous for the ozone layer (1999/45/EC)

13. Disposal considerations

13.1 Provisions relating to waste:

Waste material code (Directive 2008/98/EC, decision 2001/118/EC)

08 04 : wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 10 : waste adhesives and sealants other than those mentioned in 08 04 09

Depending on branch of industry and production process, also other EURL codes may be applicable

Can be considered as non hazardous waste according to Directive 2008/98/EC

13.2 Disposal methods:

Dissolve or mix with a combustible solvent

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery

Remove waste in accordance with local and/or national regulations

Do not discharge into drains or the environment

13.3 Packaging/Container:

Waste material code packaging (Directive 2008/98/EC)

15 01 02 : plastic packaging

14. Transport information

ADR

Transport	Not subject
UN number	-
Class	-
Packing group	-
Hazard identification number	-
Classification code	-
Labels	-
Environmentally hazardous substance mark	no

RID

Transport	Not subject
UN number	-
Class	-
Packing group	-
Classification code	-
Labels	-
Environmentally hazardous substance mark	no

ADN

Transport	Not subject
UN number	-
Class	-
Packing group	-
Classification code	-
Labels	-
Environmentally hazardous substance mark	no

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IMO

Transport	Not subject
UN number	-
Class	-
Packing group	-
Labels	-
Marine pollutant	-
Environmentally hazardous substance mark	no

ICAO

Transport	Not subject
UN number	-
Class	-
Packing group	-
Labels	-
Environmentally hazardous substance mark	no

15. Regulatory information

15.1 EU Legislation:

DSD/DPD

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

15.2 National provisions:

The Netherlands

Waterbezwaarlijkheid (for NL) 11
Waste identification other lists of waste materials LWCA (the Netherlands): KGA category 03

Germany

WGK 1
Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

15.3 Specific community rules:

REACH Annex XVII - Restriction Contains component(s) included in Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

16. Other information

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

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R10	Flammable
R20	Harmful by inhalation
R36/38	Irritating to eyes and skin
R48/22	Also harmful: danger of serious damage to health by prolonged exposure if swallowed
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of any H-statements referred to under headings 2 and 3:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H411	Toxic to aquatic life with long lasting effects.

Full text of any classes referred to under headings 2 and 3:

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure