

HFX

Safety information for 2-Component-products

Date of issue: 23/11/2015 Revision date: 23/11/2015 Supersedes: 18/05/2015 Version: 8.2

SECTION 1: Kit identification

1.1 Product identifier

Trade name HFX



Product code BU Anchor

1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti (Canada) Corp. 2360 Meadowpine Boulevard L5N 6S2 Mississauga, Ontario - Canada T +1905 8139200 1-800-363-4458 toll free - F +1 905 813 9009

SECTION 2: General information

Storage temperature: 5 - 25 °C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

SECTION 3: Kit contents

Classification of the Product

Classification (GHS-CA)

 Skin Irrit. 2
 H315

 Eye Irrit. 2
 H319

 Skin Sens. 1
 H317

 Repr. 1B
 H360

 Aquatic Acute 1
 H400

 Aquatic Chronic 3
 H412

Label elements

GHS-CA labelling

Hazard pictograms (GHS-CA)







GHS07

GHS08

GHS09

Signal word (GHS-CA) Danger

Hazardous ingredients methacrylates, dibenzoyl peroxide, boric acid

Hazard statements (GHS-CA) H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-CA) P262 - Do not get in eyes, on skin, or on clothing

P280 - Wear eye protection, protective clothing, protective gloves

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

01/12/2015 EN (English) 1/19



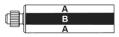
Safety information for 2-Component-products

contact lenses, if present and easy to do. Continue rinsing P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

Additional information

Plastic-cartridge, contains: Methacrylate resin, inorganic filler Dibenzoyl peroxide, phlegmatized



Name	General description	Quantity	Unit	Classification (GHS-CA)
HFX, A		1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Chronic 3, H412
HFX, B		1	pcs (pieces)	Skin Sens. 1, H317 Aquatic Acute 1, H400

SECTION 4: General advice

General advice For professional users only

SECTION 5: Safe handling advice

Environmental precautions Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

Keep cool. Protect from sunlight Storage conditions Wear personal protective equipment Precautions for safe handling

Avoid contact with skin and eyes

Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work

Provide good ventilation in process area to prevent formation of vapour

This material and its container must be disposed of in a safe way, and as per local legislation

Store away from other materials

For containment Collect spillage Incompatible materials Sources of ignition Direct sunlight Strong bases Incompatible products

Strong acids

SECTION 6: First aid measures

Methods for cleaning up

First-aid measures after eye contact Rinse immediately with plenty of water

Remove contact lenses, if present and easy to do. Continue rinsing

Obtain medical attention if pain, blinking or redness persist

First-aid measures after ingestion Rinse mouth

Do NOT induce vomiting Drink plenty of water Get medical advice/attention

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing

Allow breathing of fresh air Allow the victim to rest

First-aid measures after skin contact Wash with plenty of soap and water

Wash contaminated clothing before reuse

If skin irritation occurs:

01/12/2015 2/19 EN (English)



HFX

Safety information for 2-Component-products

Get medical advice/attention

First-aid measures general Never give anything by mouth to an unconscious person

If you feel unwell, seek medical advice (show the label where possible)

Symptoms/injuries after eye contact

Causes serious eye irritation

Symptoms/injuries after skin contact

May cause an allergic skin reaction

SECTION 7: Fire fighting measures

Firefighting instructions

Use water spray or fog for cooling exposed containers

Exercise caution when fighting any chemical fire Prevent fire-fighting water from entering environment

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection

Hazardous decomposition products in case of

Thermal decomposition generates:

fire

Carbon dioxide Carbon monoxide

SECTION 8: Other information

No data available

01/12/2015 EN (English) 3/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 11/23/2015 Revision date: 11/23/2015 Supersedes: 05/18/2015 Version: 8.2

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

1.1. Product identifier

Product form Mixture HFX, B Name Product code **BU** Anchor

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

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Hilti (Canada) Corp. 2360 Meadowpine Boulevard

L5N 6S2 Mississauga, Ontario - Canada

T+1905 8139200

1-800-363-4458 toll free - F +1 905 813 9009

Department issuing data specification sheet

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86916 Kaufering - Deutschland

T +49 8191 906310 - F +49 8191 90176310

anchor.hse@hilti.com

1.4. Emergency telephone number

Emergency number Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Sensitisation — Skin, Category 1 Full text of H-statements: see section 16 H317

2.2. Label elements

GHS-CA labelling

Hazard pictograms (GHS-CA)



Signal word (GHS-CA) Warning

Hazard statements (GHS-CA) H317 - May cause an allergic skin reaction

Precautionary statements (GHS-CA) P280 - Wear eye protection, protective clothing, protective gloves

P262 - Do not get in eyes, on skin, or on clothing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

P302+P352 - IF ÓN SKIN: Wash with plenty of water

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

01/12/2015 4/19 EN (English)



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Name	Product identifier	%	Classification (GHS-CA)
dibenzoyl peroxide	(CAS No) 94-36-0	5 - 10	Organic Peroxides, Type B, H241 Serious eye damage/eye irritation, Category 2A, H319 Sensitisation — Skin, Category 1, H317

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general Remove/Take off immediately all contaminated clothing. Never give anything by mouth to an

unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow

breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation

or rash occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion Rinse mouth. Drink plenty of water. Get medical advice/attention. Do not induce vomiting.

Obtain emergency medical attention.

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

Symptoms/injuries after skin contact May cause an allergic skin reaction.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Foam. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective equipment,

including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1.For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

01/12/2015 EN (English) 5/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local legislation.

Recover mechanically the product. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other

exposed areas with mild soap and water before eating, drinking or smoking and when leaving

work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after hand

Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditionsKeep cool. Protect from sunlight.Incompatible productsStrong bases. Strong acids.Incompatible materialsSources of ignition. Direct sunlight.

Storage temperature 5 - 25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts ar not relevant

for this product.

8.2. Exposure controls

Personal protective equipment Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.







Hand protection Wear protective gloves.

Eye protection Chemical goggles or safety glasses.

Skin and body protection Wear suitable protective clothing.

Environmental exposure controls Avoid release to the environment.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

Other information Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste.

Colour white.

01/12/2015 EN (English) 6/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Odour characteristic. Odour threshold Not determined No data available Relative evaporation rate (butylacetate=1) No data available No data available Melting point Freezing point No data available **Boiling point** No data available Flash point No data available Not self-igniting Auto-ignition temperature Decomposition temperature No data available Non flammable Flammability (solid, gas) Vapour pressure No data available No data available Relative vapour density at 20 °C Relative density No data available Density 1.7 g/cm3 AW 4.3.23 Water: Not miscible Solubility Log Pow No data available No data available Viscosity, kinematic 90 Pa.s HN-0333 Viscosity, dynamic Explosive properties Product is not explosive. Oxidising properties No data available No data available Explosive limits

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

01/12/2015 EN (English) 7/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

dibenzoyl peroxide (94-36-0)	
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Weight of evidence)
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classifiedBased on available data, the classification criteria are not met
Carcinogenicity	Not classified
dibenzoyl peroxide (94-36-0)	
IARC group	3
Reproductive toxicity	Not classifiedBased on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classifiedBased on available data, the classification criteria are not met
Aspiration hazard	Not classifiedBased on available data, the classification criteria are not met
HFX, B	
Viscosity, kinematic	52941.17647059 mm²/s
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.
Symptoms/injuries after skin contact	May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

dibenzoyl peroxide (94-36-0)	
LC50 fish 1	2 mg/l (96 h; Poecilia reticulata)
EC50 Daphnia 1	0.07 mg/l
LC50 fish 2	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)
NOEC (acute)	0.0316 mg/l (96h: Oncorhynchus mykiss: ECHA)

12.2. Persistence and degradability

HFX, B	
Persistence and degradability	Not established.
dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.

12.3. Bioaccumulative potential

HFX, B	
Bioaccumulative potential	Not established.
dibenzoyl peroxide (94-36-0)	
Log Pow	3.71 (QSAR; 3.2; Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 22 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Disposal must be done according to official regulations.

01/12/2015 EN (English) 8/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Waste disposal recommendations Refer to manufacturer/supplier for information on recovery/recycling. Dispose of

contents/container to Avoid release to the environment, Refer to manufacturer/supplier for

information on recovery/recycling.

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID
14.1. UN number			
Not regulated for transport			
14.2. UN proper shipping nan	ne		
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		•
Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :
Yes	Yes Marine pollutant : Yes	Yes	Yes
ADR 5.2.1.8.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)			
No supplementary information available			

14.6. Special precautions for user

- Overland transport
- Transport by sea

No data available

- Air transport

No data available

- Rail transport

Carriage prohibited (RID) No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National/international regulations

No additional information available

SECTION 16: Other information

SDS Major/Minor None
Date of issue 23/11/2015

01/12/2015 EN (English) 9/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

 Revision date
 23/11/2015

 Supersedes
 18/05/2015

Indication of changes:

Other information None.

Full text of H-statements:

H241	Heating may cause a fire or explosion
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

SDS_CA_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

01/12/2015 EN (English) 10/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 11/23/2015 Revision date: 11/23/2015 Supersedes: 05/18/2015 Version: 8.2

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

1.1. Product identifier

Product form Mixture HFX, A Name Product code **BU Anchor**

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

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Hilti (Canada) Corp. 2360 Meadowpine Boulevard

L5N 6S2 Mississauga, Ontario - Canada

T +1905 8139200

1-800-363-4458 toll free - F +1 905 813 9009

Department issuing data specification sheet

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86916 Kaufering - Deutschland

T +49 8191 906310 - F +49 8191 90176310

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1.4. Emergency telephone number

Emergency number Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

H315 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2A H319 Sensitisation — Skin, Category 1 H317 Reproductive toxicity, Category 1B H360

Full text of H-statements: see section 16

2.2. Label elements

GHS-CA labelling

Hazard pictograms (GHS-CA)





Signal word (GHS-CA)

Hazard statements (GHS-CA) H315 - Causes skin irritation

> H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child

Precautionary statements (GHS-CA) P280 - Wear eye protection, protective clothing, protective gloves

Danger

P262 - Do not get in eyes, on skin, or on clothing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

P302+P352 - IF ON SKIN: Wash with plenty of water

01/12/2015 11/19 EN (English)



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Name	Product identifier	%	Classification (GHS-CA)
Quartz	(CAS No) 14808-60-7	25 - 40	Not classified
2-Hydroxypropyl methacrylate	(CAS No) 27813-02-1	10 - 25	Serious eye damage/eye irritation, Category 2A, H319 Sensitisation — Skin, Category 1, H317
Bisphenol-A-diethoxy-methacrylate	(CAS No) 24448-20-2	5 - 10	Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319
Tricyclodecane dimethanol dimethacrylate	(CAS No) 43048-08-4	2.5 - 5	Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation, H335
1,1,1-Trimethylolpropane trimethacrylate	(CAS No) 3290-92-4	2.5 - 5	Not classified
1,1'-(p-tolylimino)dipropan-2-ol	(CAS No) 38668-48-3	0.1 - 1	Acute toxicity (oral), Category 2, H300 Serious eye damage/eye irritation, Category 2A, H319
boric acid	(CAS No) 10043-35-3	0.1 - 1	Reproductive toxicity, Category 1B, H360
4-tert-butylpyrocatechol	(CAS No) 98-29-3	0.1 - 1	Acute toxicity (oral), Category 4, H302 Acute toxicity (dermal), Category 4, H312 Skin corrosion/irritation, Category 1B, H314 Sensitisation — Skin, Category 1, H317

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general Remove/Take off immediately all contaminated clothing. Never give anything by mouth to an

unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow

breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact

Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation

or rash occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion Rinse mouth. Drink plenty of water. Get medical advice/attention. Do not induce vomiting.

Obtain emergency medical attention.

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

Symptoms/injuries after skin contact May cause an allergic skin reaction.

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

No additional information available

01/12/2015 EN (English) 12/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Foam. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective equipment,

including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1.For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local legislation.

Recover mechanically the product. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other

exposed areas with mild soap and water before eating, drinking or smoking and when leaving

work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep cool. Protect from sunlight.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 - 25 °C

01/12/2015 EN (English) 13/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts ar not relevant

for this product.

8.2. Exposure controls

Vapour pressure

Relative vapour density at 20 °C

Personal protective equipment Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.



No data available No data available





Hand protection Wear protective gloves.

Eye protection Chemical goggles or safety glasses.

Skin and body protection Wear suitable protective clothing.

Environmental exposure controls Avoid release to the environment.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

Other information Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Solid Physical state Appearance Thixotropic paste. Colour light brown. Odour characteristic. Not determined Odour threshold pΗ No data available Relative evaporation rate (butylacetate=1) No data available No data available Melting point No data available Freezing point Boiling point No data available 101 °C DIN 53213 Flash point Not self-igniting Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) Non flammable

No data available Relative density Density 1.66 g/ml DIN 51757 Solubility Water: Not miscible Log Pow No data available Viscosity, kinematic No data available Viscosity, dynamic 80 Pa.s HN-0333 Product is not explosive. Explosive properties No data available Oxidising properties Explosive limits No data available

01/12/2015 EN (English) 14/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

2-Hydroxypropyl methacrylate (27813-02-1)	
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight;
	Rat; Experimental value)
LD50 dermal rabbit	>= 5000 mg/kg bodyweight (Rabbit; Experimental value)
1,1,1-Trimethylolpropane trimethacrylate (329	90-92-4)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 3000 mg/kg
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	25.000 mg/kg bodyweight
boric acid (10043-35-3)	
LD50 oral rat	2660 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >2600 mg/kg bodyweight;
	Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR)
ATE US (oral)	2660.000 mg/kg bodyweight
4-tert-butylpyrocatechol (98-29-3)	
LD50 oral rat	815 mg/kg bodyweight (Rat; Lethal; ECHA)
LD50 dermal rat	1331 mg/kg bodyweight (Rat;Lethal; ECHA)
LD50 dermal rabbit	(Rabbit)
ATE US (oral)	815.000 mg/kg bodyweight
ATE US (dermal)	1331.000 mg/kg bodyweight
Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Not classifiedBased on available data, the classification criteria are not met

01/12/2015 EN (English) 15/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Carcinogenicity Not classified

Reproductive toxicity May damage fertility or the unborn child. Based on available data, the classification criteria are

not met

Specific target organ toxicity (single exposure) Not classified

Specific target organ toxicity (repeated

exposure)

Not classifiedBased on available data, the classification criteria are not met

Aspiration hazard Not classifiedBased on available data, the classification criteria are not met

HFX, A Viscosity, kinematic 48192.77108434 mm²/s

Potential adverse human health effects and

symptoms

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

Symptoms/injuries after skin contact May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

2-Hydroxypropyl methacrylate (27813-02-1)	
LC50 fish 1	493 mg/l (48 h; Leuciscus idus; GLP)
EC50 Daphnia 1	> 143 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
Threshold limit algae 2	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
1,1,1-Trimethylolpropane trimethacrylate (329)	90-92-4)
LC50 fish 1	2 mg/l
ErC50 (algae)	3.88 mg/l
NOEC chronic fish	0.138 mg/l
NOEC chronic crustacea	0.177 mg/l
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LC50 fish 1	≈ 17 mg/l
LC50 other aquatic organisms 1	245 mg/l
EC50 Daphnia 1	28.8 mg/l
NOEC (acute)	57.8 mg/l
boric acid (10043-35-3)	
LC50 fish 1	447 mg/l
EC50 Daphnia 1	658 - 875 mg/l (48 h; Daphnia magna)
LC50 fish 2	79 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water)
EC50 Daphnia 2	19.7 mg/l (336 h; Daphnia magna)
TLM fish 1	1800 ppm (24 h; Gambusia affinis)
Threshold limit algae 1	5 mg/l (672 h; Elodea sp.)
Threshold limit algae 2	0.4 - 0.8,336 h; Chlorella sp.; Growth
4-tert-butylpyrocatechol (98-29-3)	
LC50 fish 1	0.12 mg/l (96 h, Danio rerio, Lethal, ECHA)
EC50 Daphnia 1	> µg/l

12.2. Persistence and degradability

HFX, A	
Persistence and degradability	Not established.
2-Hydroxypropyl methacrylate (27813-02	2-1)
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.
boric acid (10043-35-3)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

01/12/2015 EN (English) 16/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

4-tert-butylpyrocatechol (98-29-3)	
ThOD	2.4 g O₂/g substance

12.3. Bioaccumulative potential

12.01 Bloaddanialative potential			
HFX, A			
Bioaccumulative potential	Not established.		
2-Hydroxypropyl methacrylate (27813	3-02-1)		
BCF fish 1	<= 100 (Pisces)		
BCF fish 2	3.2 (Pisces; QSAR)		
Log Pow	0.97 (OECD 102: Melting Point/Melting Range)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
1,1,1-Trimethylolpropane trimethacry	Nate (3290-92-4)		
BCF fish 2	366 l/kg		
Log Pow	3.53		
Log Kow	4.39		
1,1'-(p-tolylimino)dipropan-2-ol (3866	1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
BCF fish 1	≈		
Log Kow	2.1		
boric acid (10043-35-3)			
BCF fish 1	0 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)		
BCF fish 2	< 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight)		
Log Pow	-1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
4-tert-butylpyrocatechol (98-29-3)			
Log Pow	2.94 (Estimated value)		
9			

12.4. Mobility in soil

boric acid (10043-35-3)		
	Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

12.5. Other adverse effects

Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Disposal must be done according to official regulations.

Waste disposal recommendations Refer to manufacturer/supplier for information on recovery/recycling. Dispose of

contents/container to Avoid release to the environment, Refer to manufacturer/supplier for

information on recovery/recycling.

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID	
14.1. UN number				
Not regulated for transpor	Not regulated for transport			
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	

01/12/2015 EN (English) 17/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

ADR	IMDG	IATA	RID	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :	
No	No Marine pollutant : No	NO	No	
No supplementary information available				

14.6. Special precautions for user

- Overland transport

- Transport by sea

No data available

- Air transport

No data available

- Rail transport

Carriage prohibited (RID)

No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National/international regulations

No additional information available

SECTION 16: Other information

 SDS Major/Minor
 None

 Date of issue
 23/11/2015

 Revision date
 23/11/2015

 Supersedes
 18/05/2015

Indication of changes:

Other information None.

Full text of H-statements:

on the diagram of the control of the	
H300	Fatal if swallowed
H302	Harmful if swallowed
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
H360	May damage fertility or the unborn child

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01/12/2015 EN (English) 18/19



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

01/12/2015 EN (English) 19/19