

SAFETY DATA SHEET DFense Blok Fast Cure Hardener

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name DFense Blok Fast Cure Hardener

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

Identified uses Two component epoxy based adhesive.

1.3. Details of the supplier of the safety data sheet

Supplier ITW DEVCON

BAY 150

SHANNON INDUSTRIAL ESTATE

SHANNON CO CLARE IRELAND

T: +353 (0)61471299 F: 353(0)61471285 info@itwppe.eu

1.4. Emergency telephone number

+44(0) 1235 239670

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xn;R21/22. Muta Cat. 3;R68. C;R34. R43. N;R51/53.

2.2. Label elements

Contains 2-PIPERAZIN-1-YLETHYLAMINE

PHENOL

TRIETHYLENETETRAMINE

Labelling



Corrosive



Harmful



Dangerous for the environment

Risk Phrases

R21/22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R68 Possible risk of irreversible effects.

Safety Phrases

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately

(show label where possible).

Use appropriate containment to avoid environmental contamination.

This material and its container must be disposed of as hazardous waste.

S61

Avoid release to the environment. Refer to special instructions/safety data sheets.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

2-PIPERAZIN-1-YLETHYLAMINE			1-5%
CAS-No.: 140-31-8	EC No.: 205-411-0		
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412		Classification (67/548/EEC) C;R34 Xn;R21/22 R43 R52/53	
NONYLPHENOL			1-5%
CAS-No.: 25154-52-3	EC No.: 246-672-0		
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1B - H314 Repr. 2 - H361fd Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		Classification (67/548/EEC) Repr. Cat. 3;R62,R63 C;R34 Xn;R22 N;R50/53	
PHENOL			1-5%
CAS-No.: 108-95-2	EC No.: 203-632-7		
Classification (EC 1272/2008) Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Muta. 2 - H341 STOT RE 2 - H373		Classification (67/548/EEC) Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22	
TITANIUM DIOXIDE			< 1%
CAS-No.: 13463-67-7	EC No.: 236-675-5		
Classification (EC 1272/2008) Not classified.		Classification (67/548/EEC) Not classified.	
TRIETHYLENETETRAMINE			1-5%
CAS-No.: 112-24-3	EC No.: 203-950-6		

Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 4 - H312	C;R34
Skin Corr. 1B - H314	Xn;R21
Skin Sens. 1 - H317	R43
Aquatic Chronic 3 - H412	R52/53

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

General first aid, rest, warmth and fresh air. Perform artificial respiration if breathing has stopped.

Ingestion

DO NOT induce vomiting. Get medical attention immediately. Never give liquid to an unconscious person.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eve contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with carbon dioxide or dry powder.

Unsuitable extinguishing media

Foam. Water.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

Special Fire Fighting Procedures

Evacuate area of unprotected personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use protective gloves, goggles and suitable protective clothing. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses.

6.3. Methods and material for containment and cleaning up

Absorb with sand or other inert absorbent.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Provide good ventilation. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool and well-ventilated place. Keep containers tightly closed. Store away from: Acids. Oxidising material.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA	- 8 Hrs	STEL - 15 Min		Notes
PHENOL	WEL	2 ppm(Sk)				
TITANIUM DIOXIDE			10 mg/m3 total dust			

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Chemical resistant gloves required for prolonged or repeated contact.

Eye protection

Wear approved safety goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance solid
Colour Amber.

Odour Fishy. Ammonia.

Initial boiling point and boiling range 100

Melting point (°C) Not determined.

Relative density 0.99 Vapour density (air=1) >1

Vapour pressure <21 mm Hg

Evaporation rate <1
pH-Value, Conc. Solution alkaline
Solubility Value (G/100G H2O@20° >30%

C)

Flash point >93.3

9.2. Other information

Volatile By Vol. (%)

Not determined.

Volatile Organic Compound (VOC)

Not determined

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Unknown.

10.4. Conditions to avoid

Avoid contact with strong oxidisers. Avoid heat.

10.5. Incompatible materials

Materials To Avoid

Acids, oxidising. Chemically active metals. Nitrous acid and other nitrosating agents. Organic peroxides/hydroperoxides.

10.6. Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 3263 UN No. (IMDG) 3263 UN No. (ICAO) 3263

14.2. UN proper shipping name

Proper Shipping Name CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (NONYLPHENOL,

2-PIPERAZIN-1-YLETHYLAMINE)

14.3. Transport hazard class(es)

ADR/RID/ADN Class 8

ADR/RID/ADN Class Class 8: Corrosive substances.

ADR Label No. 8
IMDG Class 8
ICAO Class/Division 8

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

EMS F-A, S-B

Emergency Action Code 2X
Hazard No. (ADR) 80
Tunnel Restriction Code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Date 05/03/2012

Revision 3

Supersedes date 13/12/2011

Risk Phrases In Full

R34 Causes burns.
R22 Harmful if swallowed.

R21/22 Harmful in contact with skin and if swallowed.

R21 Harmful in contact with skin.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with

skin and if swallowed.

R43 May cause sensitisation by skin contact.

NC Not classified.

R63 Possible risk of harm to the unborn child.

R62 Possible risk of impaired fertility.
R68 Possible risk of irreversible effects.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H412 Harmful to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

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

H341 Suspected of causing genetic defects.

H361fd Suspected of damaging fertility or the unborn child.

H331 Toxic if inhaled.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.

H411 Toxic to aquatic life with long lasting effects.
 H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.