



## SAFETY DATA SHEET

### Dfense Block SWA (Surface Wetting Agent) Hardener

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

##### 1.1. Product identifier

Product name Dfense Block SWA (Surface Wetting Agent) 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@itwpe.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. Repr. Cat. 3;R62, R63. C;R34. R43. N;R51/53.

##### 2.2. Label elements

Contains 2-PIPERAZIN-1-YLETHYLAMINE  
4,4'-ISOPROPYLIDENEDIPHENOL  
DIETHYLENETRIAMINE  
NONYLPHENOL

##### 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.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.

##### 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).

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S57

Use appropriate containment to avoid environmental contamination.

S60

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	10-30%
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
4,4'-ISOPROPYLIDENEDIPHENOL	1-10%
CAS-No.: 80-05-7	EC No.: 201-245-8
Classification (EC 1272/2008) Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361f STOT SE 3 - H335	Classification (67/548/EEC) Repr. Cat. 3;R62 Xi;R37,R41 R43 R52
DIETHYLENETRIAMINE	10-30%
CAS-No.: 111-40-0	EC No.: 203-865-4
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317	Classification (67/548/EEC) C;R34 Xn;R21/22 R43
NONYLPHENOL	10-30%
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

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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.	

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.

Eye 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.

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### 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
DIETHYLENETRIAMINE	WEL	1 ppm(Sk)	4.3 mg/m3(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 H <sub>2</sub> O@20° C)	>30%
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.

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### **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) 3267

UN No. (IMDG) 3267

UN No. (ICAO) 3267

### **14.2. UN proper shipping name**

Proper Shipping Name CORROSIVE LIQUID, 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

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### 14.4. Packing group

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

### 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

## Dfense Block SWA (Surface Wetting Agent) Hardener

### Risk Phrases In Full

R34	Causes burns.
R22	Harmful if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.
R37	Irritating to respiratory system.
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.
R41	Risk of serious damage to eyes.
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

H318	Causes serious eye damage.
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.
H335	May cause respiratory irritation.
H361fd	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
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.