



## SAFETY DATA SHEET FLEXANE HIGH PERFORMANCE BRUSHABLE HARDENER

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

#### 1.1. Product identifier

Product name FLEXANE HIGH PERFORMANCE BRUSHABLE HARDENER  
Product No. X0104

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

Identified uses Hardener.

#### 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@itwippe.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;R48/22. Xi;R36. N;R51/53. R10.

#### 2.2. Label elements

Contains DIETHYLMETHYLBENZENEDIAMINE

Labelling



Harmful



Dangerous for the environment

Risk Phrases

R10  
R36  
R48/22  
R51/53

Flammable.  
Irritating to eyes.  
Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S25  
S26  
S36  
S51  
S57  
S60  
S61

Avoid contact with eyes.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing.  
Use only in well-ventilated areas.  
Use appropriate containment to avoid environmental contamination.  
This material and its container must be disposed of as hazardous waste.  
Avoid release to the environment. Refer to special instructions/safety data sheets.

# FLEXANE HIGH PERFORMANCE BRUSHABLE HARDENER

## 2.3. Other hazards

This product does not contain any PBT or vPvB substances.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

2-METHOXY-1-METHYLETHYL ACETATE	60-100%
CAS-No.: 108-65-6	EC No.: 203-603-9
Classification (EC 1272/2008) Flam. Liq. 3 - H226	Classification (67/548/EEC) R10
CARBON BLACK	1-5%
CAS-No.: 1333-86-4	EC No.:
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.
DIETHYLMETHYLBENZENEDIAMINE	10-30%
CAS-No.: 68479-98-1	EC No.: 270-877-4
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Eye Irrit. 2 - H319 STOT Rep. 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) Xn;R21/22,R48/22 Xi;R36 N;R50/53

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

#### General information

Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

#### Inhalation

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Contact physician if discomfort continues.

#### Ingestion

Rinse mouth thoroughly. Get medical attention immediately! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

#### Skin contact

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing.

#### Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Contact physician if irritation persists.

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

#### General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Extinguishing media

Fire can be extinguished using: Water. Carbon dioxide (CO2). Dry chemicals. Foam.

### 5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

FLAMMABLE. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. Heat may cause the containers to explode.

Specific hazards

Avoid breathing fire vapours.

### 5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep up-wind to avoid fumes. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Avoid contact with skin and eyes.

Do not smoke, use open fire or other sources of ignition.

### 6.2. Environmental precautions

Do not allow ANY environmental contamination. Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

Absorb spillage with non-combustible, absorbent material. Transfer to a container for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Use only in well-ventilated areas. Static electricity and formation of sparks must be prevented. Avoid inhalation of vapours/spray and contact with skin and eyes. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
2-METHOXY-1-METHYLETHYL ACETATE	WEL	50 ppm(Sk)	274 mg/m3(Sk)	100 ppm(Sk)	548 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

### 8.2. Exposure controls

Protective equipment

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Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Chemical respirator with organic vapour cartridge.

Hand protection

Use protective gloves. Neoprene gloves are recommended. Nitrile gloves are recommended.

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Hygiene measures

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product.

Skin protection

Protection suit must be worn.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Black.
Odour	Slightly pungent odour.
Solubility	Slightly soluble in water.
Initial boiling point and boiling range	>149
Relative density	1.06 20 °C
Vapour density (air=1)	>1
Vapour pressure	4.9 mbar 20
Evaporation rate	<1 ( butly acetate =1)
pH-Value, Conc. Solution	approx7 @ 20 °C
Flash point (°C)	>45

### 9.2. Other information

Not available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Acids. Strong oxidising substances.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented.

### 10.5. Incompatible materials

Materials To Avoid

Avoid contact with acids and oxidising substances.

### 10.6. Hazardous decomposition products

Fire or high temperatures create: Nitrous gases (NOx). Oxides of: Carbon monoxide (CO). Carbon dioxide (CO2). Vapours/gases/fumes of: Ammonia or amines. Aldehydes. Hydrogen cyanide (HCN).

# FLEXANE HIGH PERFORMANCE BRUSHABLE HARDENER

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxic Dose 1 - LD 50 >500 mg/kg (oral rat)

Inhalation

Irritating to respiratory system.

Ingestion

Harmful if swallowed.

Skin contact

Irritating to skin. Risk of sensitisation or allergic reactions among sensitive individuals. Harmful in contact with skin.

Eye contact

Irritating to eyes.

Health Warnings

May be absorbed through the skin.

Route of entry

Inhalation. Skin absorption. Ingestion.

Name

2-METHOXY-1-METHYLETHYL ACETATE

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Avoid releasing to the environment. The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

### 12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l 161mg/l

EC 50, 48 Hrs, Daphnia, mg/l 408mg/l

### 12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

### 12.4. Mobility in soil

Mobility:

Do not discharge into drains, water courses or onto the ground.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### 13.1. Waste treatment methods

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

Waste Class

08 04 99

## SECTION 14: TRANSPORT INFORMATION

General No other information noted.

### 14.1. UN number

UN No. (ADR/RID/ADN) 1139

UN No. (IMDG) 1139

## FLEXANE HIGH PERFORMANCE BRUSHABLE HARDENER

UN No. (ICAO) 1139

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

Proper Shipping Name COATING SOLUTION

### **14.3. Transport hazard class(es)**

ADR/RID/ADN Class 3  
ADR/RID/ADN Class Class 3: Flammable liquids.  
ADR Label No. 3  
IMDG Class 3  
ICAO Class/Division 3  
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  
No.

### **14.6. Special precautions for user**

EMS F-E, S-E  
Emergency Action Code 3Y  
Hazard No. (ADR) 30

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

No information required.

## 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.

Water hazard classification

WGK 1

### **15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

Revision Date 09/08/2011  
Revision 10  
Supersedes date 29/09/2008  
Date 27/07/2011

## FLEXANE HIGH PERFORMANCE BRUSHABLE HARDENER

### Risk Phrases In Full

R10	Flammable.
R21/22	Harmful in contact with skin and if swallowed.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R36	Irritating to eyes.
NC	Not classified.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Hazard Statements In Full

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### 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.