



## SAFETY DATA SHEET DEWELD 531 ACTIVATOR

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME                    DEWELD 531 ACTIVATOR  
 PRODUCT NO.                    X0142  
 SUPPLIER                        ITW DEVCON  
    Unit 3 Shipton Way  
    Express Business Park  
    Northampton Road, Rushden  
    Northants  
    NN10 6GL  
    T: 0044 1933 354550  
 EMERGENCY TELEPHONE        +44 (0)208 762 8322

### 2 HAZARDS IDENTIFICATION

Highly flammable. May cause sensitisation by skin contact. Irritating to respiratory system and skin.

CLASSIFICATION                    Xi;R37/38. R43. F;R11.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
METHYL METHACRYLATE	201-297-1	80-62-6	60-100%	F;R11 R43 Xi;R37/38

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

Avoid contact with eyes. Do not breathe vapour/spray. 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. Contact physician if discomfort continues.

#### INGESTION

Do not induce vomiting. Drink plenty of water. Get medical attention.

#### SKIN CONTACT

Remove affected person from source of contamination. Wash skin thoroughly with soap and water for several minutes. Contact physician if irritation persists.

#### 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.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder.

#### SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Avoid water in straight hose stream; will scatter and spread fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

## DEVWELD 531 ACTIVATOR

### SPECIFIC HAZARDS

Highly flammable. Avoid breathing fire vapours. May travel considerable distance to source of ignition and flash back. Polymerises generating heat.

### PROTECTIVE MEASURES IN FIRE

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

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Remove sources of ignition. Avoid inhalation of spray mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

### ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### SPILL CLEAN UP METHODS

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.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Take precautionary measures against static discharges. Storage tanks and other containers must be grounded. Do not smoke, use naked flames or other sources of ignition. Observe good industrial hygiene practices.

### STORAGE PRECAUTIONS

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

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
METHYL METHACRYLATE	WEL	50 ppm	208 mg/m <sup>3</sup>	100 ppm	416 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

### PROTECTIVE EQUIPMENT



### PROCESS CONDITIONS

Provide eyewash, quick drench.

### ENGINEERING MEASURES

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

### RESPIRATORY EQUIPMENT

In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2).

### HAND PROTECTION

Use protective gloves made of: Rubber or plastic.

### EYE PROTECTION

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

### HYGIENE MEASURES

Keep away from food, drink and animal feeding stuffs. 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. Change work clothing daily before leaving work place.

**DEWELD 531 ACTIVATOR****SKIN PROTECTION**

Protection suit must be worn.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Viscous liquid		
COLOUR	Yellow		
ODOUR	Slightly pungent odour		
BOILING POINT (°C)	101	RELATIVE DENSITY	.93 - 1.05 @ 20 °C
VAPOUR PRESSURE	28mmHg 20	pH-VALUE, CONC. SOLUTION	8.5 @ 20 °C
FLASH POINT (°C)	10.6	FLAMMABILITY LIMIT - LOWER(%)	2.0
FLAMMABILITY LIMIT - UPPER(%)	12.5		

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions and recommended use. Avoid: Heat, sparks, flames. May polymerise.

**CONDITIONS TO AVOID**

Heating will generate vapours which may form explosive vapour/air mixtures.

**HAZARDOUS POLYMERISATION**

May polymerise.

**MATERIALS TO AVOID**

Avoid contact with oxidising agents.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire or high temperatures create: Nitrous gases (NOx). Cyanides.

**11 TOXICOLOGICAL INFORMATION****SKIN CONTACT**

Irritating to skin. May cause sensitisation by skin contact. Prolonged or repeated exposure may cause severe irritation. Risk of sensitisation or allergic reactions among sensitive individuals.

**EYE CONTACT**

Irritating to eyes.

**HEALTH WARNINGS**

Prolonged or repeated exposure may cause severe irritation.

**TARGET ORGANS**

Prolonged or repeated exposure may cause: May cause damage to the liver and kidneys. May cause liver and/or renal damage. Central nervous system. Respiratory system, lungs.

Name	METHYL METHACRYLATE
Toxic Dose 1 - LD 50	7872 mg/kg (oral rat)
Toxic Conc. - LC 50	7093 ppm/4h (inh-rat)

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Avoid releasing to the environment.

**BIOACCUMULATION**

Do not allow ANY environmental contamination. Do not discharge into drains, water courses or onto the ground.

**DEGRADABILITY**

Methyl methacrylate monomer : Biochemical oxygen demand within 5 days (BOD5) = .14 g/g - 0.9 g/g.

**WATER HAZARD CLASSIFICATION**

WGK 1 WGH Nr:1252

## DEVWELD 531 ACTIVATOR

### 13 DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS**

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

**WASTE CLASS**

08 04 09

### 14 TRANSPORT INFORMATION



UK ROAD CLASS	3	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	ADHESIVES	ADR CLASS	Class 3: Flammable liquids.
UN NO. ROAD	1133	HAZARD No. (ADR)	33
ADR CLASS NO.	3	HAZCHEM CODE	3YE
ADR PACK GROUP	II	RID CLASS NO.	3
ADR LABEL NO.	3	UN NO. SEA	1133
CEFIC TEC(R) NO.	30GF1-I+II, 30GF1-sp	IMDG PAGE NO.	3
RID PACK GROUP	II	EMS	F-E, S-D
IMDG CLASS	3	MARINE POLLUTANT	No.
IMDG PACK GR.	II	AIR CLASS	3
MFAG	See Guide		
UN NO. AIR	1133		
AIR PACK GR.	II		

### 15 REGULATORY INFORMATION

**LABELLING**



Irritant



Highly Flammable

**CONTAINS**

METHYL METHACRYLATE

**RISK PHRASES**

R11	Highly flammable.
R43	May cause sensitisation by skin contact.
R37/38	Irritating to respiratory system and skin.

**SAFETY PHRASES**

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S29	Do not empty into drains.
S33	Take precautionary measures against static discharges.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

### 16 OTHER INFORMATION

REVISION DATE: 30/09/2008

## DEVWELD 531 ACTIVATOR

REVISION DATE 30/09/2008

REV. NO./REPL. SDS GENERATED 3

DATE 17.01.2005

### RISK PHRASES IN FULL

R11	Highly flammable.
R37/38	Irritating to respiratory system and skin.
R43	May cause sensitisation by skin contact.

### 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.



## SAFETY DATA SHEET DEWELD 531 ADHESIVE

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME                    DEWELD 531 ADHESIVE  
 SUPPLIER                         ITW DEVCON  
     BAY 150  
     SHANNON INDUSTRIAL ESTATE  
     SHANNON  
     CO CLARE  
     IRELAND  
     T: +353 (0)61471299  
     F: 353(0)61471285  
 EMERGENCY TELEPHONE        +44 (0)208 762 8322

### 2 HAZARDS IDENTIFICATION

Highly flammable. May cause sensitisation by skin contact. Irritating to respiratory system and skin.

CLASSIFICATION                    Xi;R37/38. R43. F;R11.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
MALEIC ACID	203-742-5	110-16-7	1-10%	Xn;R22 Xi;R36/37/38
METHYL METHACRYLATE	201-297-1	80-62-6	30-60%	F;R11 R43 Xi;R37/38

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

Do not breathe vapour/spray. 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

Do not induce vomiting. Drink plenty of water. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately!

#### SKIN CONTACT

Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Contact physician if irritation persists.

#### 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.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder.

#### SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Avoid water in straight hose stream; will scatter and spread fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

## DEWELD 531 ADHESIVE

### SPECIFIC HAZARDS

Avoid breathing fire vapours. Highly Flammable May travel considerable distance to source of ignition and flash back. Polymerises generating heat.

### PROTECTIVE MEASURES IN FIRE

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

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Highly flammable. Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. Remove sources of ignition. Wear protective clothing as described in Section 8 of this safety data sheet. Do not breathe vapour. Avoid contact with skin and eyes.

### ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### SPILL CLEAN UP METHODS

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.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Use only in well-ventilated areas. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Take precautionary measures against static discharges. Storage tanks and other containers must be grounded. Do not smoke, use naked flames or other sources of ignition. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Do not use in confined spaces without adequate ventilation and/or respirator. Observe good industrial hygiene practices.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
METHYL METHACRYLATE	WEL	50 ppm	208 mg/m <sup>3</sup>	100 ppm	416 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

### 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.

### HAND PROTECTION

Use protective gloves. Butyl rubber gloves are recommended.

### EYE PROTECTION

Wear approved safety goggles. Wear tight-fitting goggles or face shield.

### HYGIENE MEASURES

Keep away from food, drink and animal feeding stuffs. 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. Change work clothing daily before leaving work place.

### SKIN PROTECTION

Protection suit must be worn.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**DEWELD 531 ADHESIVE**

APPEARANCE	Paste		
COLOUR	White / off-white		
ODOUR	Slightly pungent odour		
BOILING POINT (°C)	100.5	MELTING POINT (°C)	-47.7
RELATIVE DENSITY	.93 - 1.05 @ 20 °C	VAPOUR DENSITY (air=1)	3.5
VAPOUR PRESSURE	28mmHg 20	EVAPORATION RATE	3 (butyl acetate =1)
FLASH POINT (°C)	10	FLAMMABILITY LIMIT - LOWER(%)	2.1
FLAMMABILITY LIMIT - UPPER(%)	12.5		

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions and recommended use.

**CONDITIONS TO AVOID**

Heating will generate vapours which may form explosive vapour/air mixtures. Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

**HAZARDOUS POLYMERISATION**

May polymerise.

**POLYMERISATION DESCRIPTION**

Avoid heat.

**MATERIALS TO AVOID**

Avoid contact with oxidisers or reducing agents. Bases, alkalies (inorganic). Bases, alkalies (organic).

**HAZARDOUS DECOMPOSITION PRODUCTS**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire or high temperatures create: Vapours/gases/fumes of: Fumaric acid

**11 TOXICOLOGICAL INFORMATION****INHALATION**

Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.

**INGESTION**

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. May cause stomach pain or vomiting.

**SKIN CONTACT**

May be absorbed through the skin. Irritating to skin. Prolonged contact may cause redness, irritation and dry skin. May cause sensitisation by skin contact. Risk of sensitisation or allergic reactions among sensitive individuals.

**EYE CONTACT**

Irritating to eyes. Risk of corneal damage.

**TARGET ORGANS**

Prolonged or repeated exposure may cause: May cause damage to the liver and kidneys. Heart & cardiovascular system. Respiratory system, lungs. Central nervous system.

Name	METHYL METHACRYLATE
Toxic Dose 1 - LD 50	7872 mg/kg (oral rat)
Toxic Conc. - LC 50	7093 ppm/4h (inh-rat)
Name	MALEIC ACID
Toxic Dose 1 - LD 50	708 mg/kg (oral rat)

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Avoid release to the environment.

**MOBILITY**

Do not discharge into drains, water courses or onto the ground. Biochemical oxygen demand within 5 days (BOD5) = 0.14g/g - 0.90 g/g; Theoretical oxygen demand (ThOD) = 1.92g/g



## DEWELD 531 ADHESIVE

**BIOACCUMULATION**

LC50/96h/fathead minnows = 150 ppm, LC50/96h/bluegill sunfish = 232ppm.

**WATER HAZARD CLASSIFICATION**

WGK 1

### 13 DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS**

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

**WASTE CLASS**

08 04 09

### 14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	Adhesives		
UN NO. ROAD	1133	ADR CLASS NO.	3
ADR PACK GROUP	II	RID CLASS NO.	3
RID PACK GROUP	II	UN NO. SEA	1133
IMDG CLASS	3	IMDG PACK GR.	II
UN NO. AIR	1133	AIR CLASS	3
AIR PACK GR.	II		

### 15 REGULATORY INFORMATION

**LABELLING**



Irritant



Highly Flammable

**CONTAINS**

METHYL METHACRYLATE

**RISK PHRASES**

R11	Highly flammable.
R43	May cause sensitisation by skin contact.
R37/38	Irritating to respiratory system and skin.

**SAFETY PHRASES**

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S29/35	Do not empty into drains; dispose of this material and its container in a safe way.
S33	Take precautionary measures against static discharges.
S37/39	Wear suitable gloves and eye/face protection.
S51	Use only in well-ventilated areas.

### 16 OTHER INFORMATION

REVISION DATE: 01/10/2008

## DEWELD 531 ADHESIVE

REVISION DATE 01/10/2008

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DATE 02.03.2005

### RISK PHRASES IN FULL

R11	Highly flammable.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37/38	Irritating to respiratory system and skin.
R43	May cause sensitisation by skin contact.

### DISCLAIMER

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