# SAFETY DATA SHEET AB1212

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

# SECTION1:Identificationofthesubstance/mixtureandofthecompany/undertaking

1.1. Product identifier

Product name AB1212 Product number AB1212

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

Identified uses Adhesive.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier ABRABOND LTD

**EDWIN AVENUE** 

HOO FARM INDUSTRIAL ESTATE

**KIDDERMINSTER** 

**WORCS DY11 7RA** 

T: +44 (0) 1562 753334 F: +44 (0) 1562 67595

1.4. Emergency telephone number

Emergency telephone +44 01562 753334 (NOT 24HRS)

### SECTION2: Hazardsidentification

# 2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 -

H351 STOT SE 3 - H335 STOT RE 2 - H373 STOT SE 3 - H335

Environmental hazards Not Classified

Classification (67/548/EEC or Xn;R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38.

1999/45/EC)

Human health The product contains small amounts of organic solvents. Contains non-volatile isocyanate.

Heating may generate vapours which irritate the respiratory system. May cause allergy or

asthma symptoms or breathing difficulties if inhaled.

# 2.2. Label elements

# AB1212

### Pictogram





Signal word Danger

Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

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

Precautionary statements EUH204 Contains isocyanates. May produce an allergic reaction.

P260 Do not breathe vapour/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P284 [In case of inadequate ventilation] wear respiratory protection.

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

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

P313 Get medical advice/attention.

P501 Dispose of contents/container in accordance with national regulations.

Contains DICHLOROMETHANE, DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS

AND HOMOLOGUES)

#### 2.3. Other hazards

# SECTION3:Composition/informationoningredients

#### 3.2. Mixtures

DICHLOROMETHANE

CAS number: 75-09-2

EC number: 200-838-9

REACH registration number: 01-2119480404-41-0000

Classification

Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Carc. 2 - H351

STOT SE 3 - H336

# AB1212

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF

ISOMERS AND HOMOLOGUES)

CAS number: 32055-14-4

REACH registration number: 01-

2119457024-46-0006

Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H332 Xn;R20,R48/20. Carc. Cat. 3;R40. Xi;R36/37/38. R42/43.

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373

2,2'DIMORPHOLINYLDIETHYL ETHER

<1%

10-30%

CAS number: 6425-39-4 EC number: 229-194-7 REACH registration number: 01-

2119969278-20-0000

Classification (67/548/EEC or 1999/45/EC)

Eye Irrit. 2 - H319 Xi;R36.

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

### SECTION4: Firstaidmeasures

# 4.1. Description of first aid measures

General information Remove affected person from source of contamination.

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion DO NOT induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention if any discomfort continues.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after

washing. Show this Safety Data Sheet to the medical personnel.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause redness and irritation.

Eye contact Severe irritation, burning and tearing.

# $\underline{\text{4.3. Indication of any immediate medical attention and special treatment needed}}$

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

# SECTION5:Firefightingmeasures

# AB1212

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards The product is non-combustible. Irritating gases or vapours. Not known.

Hazardous combustion

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water. Do not allow water to contact

any leaked material.

Special protective equipment

for firefighters

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus

(SCBA) and appropriate protective clothing.

### SECTION6: Accidental releasemeasures

# 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

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

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Absorb spillage with non-

combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation. Contain spillage with sand, earth or other suitable

non-combustible material. Avoid the spillage or runoff entering drains, sewers or

watercourses.

#### 6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

# SECTION7:Handlingandstorage

# 7.1. Precautions for safe handling

Usage precautions Avoid inhalation of vapours and spray/mists. Avoid contact with skin and eyes. Do not use in

confined spaces without adequate ventilation and/or respirator. Spraying is permitted only in

closed systems, spray cabinets or spray boxes with adequate ventilation.

# $\underline{\text{7.2. Conditions for safe storage, including any incompatibilities}}$

Storage precautions Store in closed original container at temperatures between 5°C and 25°C.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

### SECTION8: Exposure Controls/personal protection

### 8.1. Control parameters

Occupational exposure limits

**DICHLOROMETHANE** 

### AB1212

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 350 mg/m3(Sk) Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 1060 mg/m3(Sk)

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Long-term exposure limit (8-hour TWA): WEL 0.07 mg/m³
Short-term exposure limit (15-minute): WEL 0.02 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

# DICHLOROMETHANE (CAS: 75-09-2)

Ingredient comments WEL = Workplace Exposure Limits

DNEL Consumer - Dermal; Short term systemic effects: 353 mg/m³

Workers - Dermal; Short term systemic effects: 706 mg/m³

PNEC - Fresh water; 0.54 mg/l

Sediment (Freshwater); 4.47 mg/kg
Intermittent release; 0.27 mg/l
Sediment (Marinewater); 1.61 mg/kg

- Marine water; 0.194 mg/l

- STP; 26 mg/l - Soil; 0.583 mg/kg

### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES) (CAS: 32055-14-4)

Ingredient comments WEL = Workplace Exposure Limits

DNEL Workers - Dermal; Short term systemic effects: 50 mg/kg

Workers - Inhalation; Short term systemic effects: 0.1 mg/m³ Workers - Dermal; Short term local effects: 28.7 mg/cm² Workers - Inhalation; Short term local effects: 0.1 mg/m³ Workers - Inhalation; Long term systemic effects: 0.05 mg/m³ Workers - Inhalation; Long term local effects: 0.05 mg/m³

General population - Dermal; Short term systemic effects: 25 mg/kg
General population - Inhalation; Short term systemic effects: 0.05 mg/m³
General population - Oral; Short term systemic effects: 20 mg/kg
General population - Dermal; Short term local effects: 17.2 mg/cm²
General population - Inhalation; Short term local effects: 0.05 mg/m³
General population - Inhalation; Long term systemic effects: 0.025 mg/m³
General population - Inhalation; Long term local effects: 0.025 mg/m³

PNEC - Fresh water; 1 mg/l

Marine water; 0.1 mg/lSoil; 1 mg/kg dry weight

-STP; 1 mg/l

### 8.2. Exposure controls

# Protective equipment









Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

### AB1212

Eye/face protection Wear chemical splash goggles.

noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber.

Other skin and body

protection

Wear suitable protective clothing as protection against splashing or contamination. Wear

apron or protective clothing in case of contact.

hands after handling. When using do not eat, drink or smoke.

fitted with the following cartridge: Gas filter, type AX.

Environmental exposure

controls

Keep container tightly sealed when not in use.

# SECTION9: Physical and Chemical Properties

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

Appearance Coloured liquid.

Colour Various colours.

Odour Chlorinated hydrocarbons.

Odour threshold Not available.

pH Not available.

Melting point Not available.

Initial boiling point and range 39-40°C @

Flash point Not applicable.

Evaporation rate fast

Evaporation factor Not available.
Flammability (solid, gas) Not available.

Upper/lower flammability or

explosive limits

Not applicable.

Other flammability Not available.

Vapour pressure Not applicable.

Vapour density Not available.

Relative density 1.10 @ 20°C

Bulk density Not available.

Solubility(ies) Insoluble in water. Hardens in contact with water.

Partition coefficient Not available.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity > 20.5 mm²/s.

Explosive properties Not available.

# AB1212

Explosive under the influence N

Not considered to be explosive.

of a flame

Oxidising properties Not available.

Comments Information given is applicable to the product as supplied.

9.2. Other information

Other information No information required.

Refractive index Not available.

Particle size Not available.

Molecular weight Not available.

Volatility Not available.

Saturation concentration Not available.

Critical temperature Not available.

# SECTION10:Stabilityandreactivity

# 10.1. Reactivity

Reactivity The product will harden into a solid mass in contact with water and moisture.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Not applicable. May polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid contact with water.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of carbon. Oxides of nitrogen.

# SECTION11:Toxicologicalinformation

# 11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 10

10,000.0

mg/kg)

products

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD50

10,000.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅o

0.493

vapours mg/l)

# AB1212

Species Rat

ATE inhalation (vapours mg/l) 50.0

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Moderately irritating.

Respiratory sensitisation

Respiratory sensitisation Sensitising.

Carcinogenicity

Carcinogenicity Suspected carcinogen based on limited evidence.

Target organ for

carcinogenicity

No specific target organs known.

Reproductive toxicity

Reproductive toxicity -

This substance has no evidence of toxicity to reproduction.

development

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Morphological changes that are potentially reversible but provide clear evidence of marked

organ dysfunction.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation Irritating to respiratory system. May cause sensitisation by inhalation.

Ingestion May cause stomach pain or vomiting.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritation of eyes and mucous membranes.

Acute and chronic health

hazards

May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. May cause respiratory

system irritation. Frequent inhalation of vapours may cause respiratory allergy.

Route of entry Inhalation Skin and/or eye contact

Medical symptoms Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest

pressure.

Medical considerations Chronic respiratory and obstructive airway diseases.

Toxicological information on ingredients.

# DICHLOROMETHANE

Acute toxicity - oral

Acute toxicity oral (LD50

2,000.0

mg/kg)

Species Rat

Acute toxicity - inhalation

# AB1212

Acute toxicity inhalation

(LC<sub>50</sub> vapours mg/l)

Species Rat

ATE inhalation (vapours

mg/l)

86.0

86.0

# DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Acute toxicity - oral

Acute toxicity oral (LD₅o

10,000.0

mg/kg)

Species Rat

ATE oral (mg/kg) 10,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅o

mg/kg)

**Species** 

Rabbit

9,400.0

ATE dermal (mg/kg) 9,400.0

Acute toxicity - inhalation

Acute toxicity inhalation

0.493

(LC₅₀ vapours mg/l)

Species Rat

Acute toxicity inhalation

0.31

(LC<sub>50</sub> dust/mist mg/l)

Species Rat

ATE inhalation (vapours

mg/l)

11.0

ATE inhalation

1.5

(dusts/mists mg/l)

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye

Moderately irritating.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation Sensitising.

Carcinogenicity

Carcinogenicity Suspected carcinogen based on limited evidence.

Target organ for

carcinogenicity

No specific target organs known.

# AB1212

Reproductive toxicity

Reproductive toxicity -

This substance has no evidence of toxicity to reproduction.

development

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Morphological changes that are potentially reversible but provide clear evidence of

marked organ dysfunction.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation Irritating to respiratory system. May cause sensitisation by inhalation.

Ingestion May cause stomach pain or vomiting.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritation of eyes and mucous membranes.

Acute and chronic health

hazards

May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation.

May cause respiratory system irritation. Frequent inhalation of vapours may cause

respiratory allergy.

Route of entry Inhalation Skin and/or eye contact

Medical symptoms Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of

chest pressure.

Medical considerations Chronic respiratory and obstructive airway diseases.

# SECTION12: Ecological Information

Ecotoxicity The product is not expected to be hazardous to the environment.

Ecological information on ingredients.

### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

Acute toxicity - fish LC50, 96 hours, 96 hours: > 1000 mg/l, Freshwater fish

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: >500 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours, 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus

Ecological information on ingredients.

### **DICHLOROMETHANE**

Acute toxicity - fish LC50, 96 hours, 96 hours: > 93 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 27 mg/l, Daphnia magna

# AB1212

Acute toxicity - aquatic

plants

IC<sub>50</sub>, 72 hours: 550 mg/l, Algae

# DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Acute toxicity - fish LC50, 96 hours, 96 hours: > 1000 mg/l, Freshwater fish

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: >500 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours, 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus

Acute toxicity -

microorganisms

EC<sub>50</sub>, 3 hours: 100 mg/l, Activated sludge

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 10 mg/l, Daphnia magna

# 12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

Stability (hydrolysis) Reacts with water.

Biological oxygen demand < 10 g O<sub>2</sub>/g substance

Ecological information on ingredients.

### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Persistence and

degradability

The product is not readily biodegradable.

Stability (hydrolysis) Reacts with water.

Biological oxygen demand < 10 g O₂/g substance

# 12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Not available.

Ecological information on ingredients.

#### DICHLOROMETHANE

Bioaccumulative potential 
The product is not bioaccumulating.

# DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product is non-volatile.

Ecological information on ingredients.

#### **DICHLOROMETHANE**

### AB1212

Mobility The product contains volatile organic compounds (VOCs) which will evaporate

easily from all surfaces.

# DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Mobility The product is non-volatile.

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and  $\nu P \nu B$ 

This product does not contain any substances classified as PBT or vPvB.

assessment

Ecological information on ingredients.

### DICHLOROMETHANE

Results of PBT and vPvB This product does not contain any substances classified as PBT or vPvB. assessment

### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Results of PBT and vPvB This product does not contain any substances classified as PBT or vPvB. assessment

### 12.6. Other adverse effects

Ecological information on ingredients.

#### **DICHLOROMETHANE**

Other adverse effects Not applicable.

### SECTION13:Disposalconsiderations

# 13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

Waste class 070208

### SECTION14:Transportinformation

### 14.1. UN number

UN No. (ADR/RID) 2810

UN No. (IMDG) 2810

UN No. (ICAO) 2810

UN No. (ADN) 2810

# 14.2. UN proper shipping name

Proper shipping name

TOXIC LIQUID, ORGANIC, N.O.S.

(ADR/RID)

Proper shipping name

(IMDG)

TOXIC LIQUID, ORGANIC, N.O.S.

### AB1212

Proper shipping name (ICAO) TOXIC LIQUID, ORGANIC, N.O.S.

Proper shipping name (ADN) TOXIC LIQUID, ORGANIC, N.O.S.

### 14.3. Transport hazard class(es)

ADR/RID class 6.1

ADR/RID classification code T1

ADR/RID label 6.1

IMDG class 6.1

ICAO class/division 6.1

ADN class 6.1

### Transport labels



### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN 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-A, S-A

ADR transport category 2

Emergency Action Code 2X

Hazard Identification Number 60

(ADR/RID)

Tunnel restriction code (E)

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

# SECTION15:Regulatoryinformation

# 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 (as

amended).

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

# SECTION16:Otherinformation

# AB1212

Issued by Compliance
Revision date 01/06/2015

Revision 20

Risk phrases in full R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitisation by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

Hazard statements in full H315 Causes skin irritation.

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

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

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

Store Between 5'c - 25'c

Contains SVHC NO