

SAFETY DATA SHEET: **BD10 WING JOINING KIT HARDENER**

(BD10 Wing Joining Kit Hardener used with
BD10 Wing Joining Kit Adhesive)

REVISION DATE: 16/6/2015

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

1.1. Product identifier

Product name WING JOINING KIT HARDENER
Product No. BD10

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

Identified uses Hardener and Adhesive mixed equal parts. Modelling adhesive
Uses advised against Specific uses are identified above and in the technical data sheet. No other uses have been identified and are advised against.

1.3. Details of the supplier of the safety data sheet

Supplier Deluxe Materials Ltd
Unit 13, Cufaude Business Park
Cufaude Lane, Bramley
Hampshire, RG26 5DL
United Kingdom

Tel: +44(0)1256 883944
Fax: +44(0)1256 883966

info@deluxematerials.com

1.4. Emergency telephone number

+44(0)1256 883944 (09.00 -17.30 GMT)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Skin Corr. 1B - H314;Skin Sens. 1 - H317;Repr. 2 - H361f
Environment	Aquatic Acute 1 - H400;Aquatic Chronic 1 - H410
Classification (1999/45/EEC)	Repr. Cat. 3;R62. C;R34. R43. N;R50/53.

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

2.2. Label elements

Contains DODECYLPHENOL
2-PIPERAZIN-1-YLETHYLAMINE

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

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Precautionary Statements	H317	May cause an allergic skin reaction.
	H361f	Suspected of damaging fertility.
	H410	Very toxic to aquatic life with long lasting effects.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Supplementary Precautionary Statements	P281	Use personal protective equipment as required.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+313	IF exposed or concerned: Get medical advice/attention.
	P310	Immediately call a POISON CENTER or doctor/physician.
	P501	Dispose of contents/container to ...
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P260	Do not breathe vapour/spray.
	P261	Avoid breathing vapour/spray.
	P264	Wash contaminated skin thoroughly after handling.
	P321	Specific treatment (see medical advice on this label).
	P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P333+313	If skin irritation or rash occurs: Get medical advice/attention.	
P363	Wash contaminated clothing before reuse.	
P391	Collect spillage.	
P405	Store locked up.	

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

DODECYLPHENOL	30 - 60%	
CAS-No.: 121158-58-5	EC No.: 310-154-3	Registration Number: 01-2119513207-49-xxxx
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361f Aquatic Chronic 1 - H410	Classification (67/548/EEC) Repr. Cat. 3;R62. Xi;R36/38. N;R50/53.	
2-PIPERAZIN-1-YLETHYLAMINE	10-30%	
CAS-No.: 140-31-8	EC No.: 205-411-0	

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Classification (EC 1272/2008)
Acute Tox. 4 - H302
Acute Tox. 3 - H311
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

Classification (67/548/EEC)
C;R34
Xn;R21/22
R43
R52/53

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

Composition Comments

The remaining components are trade secret.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention.

Ingestion

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately! Provide rest, warmth and fresh air.

Skin contact

Remove affected person from source of contamination. Rinse the skin immediately with lots of water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

General information

Seek medical Attention in case of contact with skin and eyes or inhalation or ingestion. If adverse symptoms develop seek medical attention

Inhalation

Upper respiratory irritation. Irritation of nose, throat and airway. Severe irritation in nose and throat.

Ingestion

May cause chemical burns in mouth and throat. May cause discomfort if swallowed. May cause stomach pain or vomiting. Nausea, vomiting.

Skin contact

Prolonged skin contact may cause redness and irritation. May cause serious chemical burns to the skin. Burning pain and severe corrosive skin damage. Mild dermatitis, allergic skin rash. May cause skin irritation/eczema.

Eye contact

Irritation of eyes and mucous membranes. May cause severe irritation to eyes. Irritating and may cause redness and pain. May cause blurred vision and serious eye damage. Irritation and redness followed by blurred vision. Profuse watering of the eyes. Irritation, burning, lachrymation, blurred vision after liquid splash. Visual disturbances including blurred vision Vapour, spray or dust may cause chronic eye irritation or eye damage. Extreme irritation of eyes and mucous membranes, including burning and tearing.

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!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Fire can be extinguished using: Carbon dioxide (CO2). Foam. Water spray, fog or mist.

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

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Hazardous combustion products

None under normal conditions. In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

In case of fire, toxic and corrosive gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

No specific fire fighting procedure given. Avoid breathing fire vapours. Keep up-wind to avoid fumes. Ventilate closed spaces before entering them. Fight advanced or massive fires from safe distance or protected location. If possible, fight fire from protected position. Be aware of danger for fire to re-start. Beware, risk of formation of toxic and corrosive gases. Be aware of danger of explosion. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Stay away from ends of tanks. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

Protective equipment for fire-fighters

Wear full protective clothing. Use air-supplied respirator during fire fighting.

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. Use protective gloves, goggles and suitable protective clothing. In case of inadequate ventilation, use respiratory protection. Take precautionary measures against static discharges. Do not smoke, use open fire or other sources of ignition. Do not breathe vapour. Avoid inhalation of vapours and contact with skin and eyes. Avoid inhalation of spray mist and contact with skin and eyes. Avoid inhalation of dust. Avoid inhalation of dust and vapours. Avoid inhalation of vapours and aerosol spray. Avoid contact with eyes and prolonged skin contact. Provide adequate ventilation. In case of spills, beware of slippery floors and surfaces.

6.1.1 For non-emergency personnel

Keep unnecessary and unprotected people away. Do not touch or walk through spilt material. Avoid breathing vapours.

Provide ventilation. Use PPE

6.1.2. Emergency Responders

Wear Personal Protection Equipment (PPE) as outlined in section 8.2. Shut off any leaks without personal risk. Attempt to disperse any vapour cloud or direct product flow into a safe area by means of fog sprays. Monitor the area for vapours.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses. Prevent entry into drains. Avoid discharge to the aquatic environment. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities. To prevent release, place container with damaged side up. Collect and dispose of spillage as indicated in section 13. Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Avoid spreading dust or contaminated materials.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. DO NOT touch spilled material! Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage. Runoff or release to sewer, waterway or ground is forbidden. Inform Authorities if large amounts are involved.

6.3.1. Containment

Contain spill by a bund

6.3.2. Clean Up

Use Vermiculite, sand or earth or earth to absorb spill and place in containers for disposal as described in section 13. Wear Full PPE as described in sections 6 and 8.

6.3.3. Other Information

Remember do not wash into the drains. Do not reuse the material directly. Notify the Competent Authority for exceptionally large spillages where a danger to health of the general public or the environment may occur.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Provide good ventilation.

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7.1.1 Recommendations for Safe Handling

Wear PPE as outlined in section 8.

7.1.2. Advice on Occupational Hygiene

Do not eat, drink or smoke where this material is being used. Wash thoroughly after using this product. Air dry any contaminated clothing before washing. Do not use this material until all safety precautions have been read.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Refer to technical data sheet

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment



Engineering measures

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection

Use protective gloves.

Eye protection

Use approved safety goggles or face shield.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated.

When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Straw.
Odour	Characteristic.
Initial boiling point and boiling range (°C)	>200
Relative density	1.000
Viscosity	50.0 Ps 25
Flash point (°C)	>130

9.2. Other information

Not known.

SECTION 10: STABILITY AND REACTIVITY

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10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Under normal conditions for storage and use hazardous reaction will not occur

Hazardous Polymerisation

Under normal conditions for storage and use, hazardous polymerisation will not occur

10.4. Conditions to avoid

Avoid contact with acids and oxidising substances.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

10.6. Hazardous decomposition products

High temperatures generate: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

No information available.

Inhalation

No specific health warnings noted.

Ingestion

Harmful if swallowed.

Skin contact

May cause sensitisation by skin contact. Causes burns.

Eye contact

Irritating to eyes.

Route of entry

Inhalation. Ingestion. Skin and/or eye contact.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

Not determined.

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12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not known.

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)	1760
UN No. (IMDG)	1760
UN No. (ICAO)	1760

14.2. UN proper shipping name

Proper Shipping Name Corrosive Liquid n.o.s. (dodecylphenol - 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

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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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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

Abbreviations and acronyms used in the safety data sheet

PBT - Persistent, bioaccumulative and toxic vPvB - Very Persistent, very Bioaccumulative WEL- Workplace exposure limits

General information

Only trained personnel should use this material.

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 09/12/2014

Revision 10

Supersedes date 31/10/2014

Risk Phrases In Full

R34 Causes burns.
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.
R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.
R62 Possible risk of impaired fertility.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H361f Suspected of damaging fertility.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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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.