

SAFETY DATA SHEET B2025 (HARDENER)

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

1.1. Product identifier

Product name B2025 (HARDENER)
 Container size 28ml

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

Identified uses 2 Part Adhesive

1.3. Details of the supplier of the safety data sheet

Supplier BONDLOC UK LTD
 UNIT 2 BEWDLEY BUSINESS PARK
 LONG BANK
 BEWDLEY
 WORCESTERSHIRE
 DY12 2TZ
 01299 269269
 01299 269210
 sales@bondloc.co.uk

1.4. Emergency telephone number

+44 (0)1299 269269 Monday - Friday 09:00-17:00 hrs
 National Emergency Telephone Number
 +44 (0)1299 269269 Mon-Fri 09:00-17:00hrs

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; Resp. Sens. 1 - H334; Skin Sens. 1 - H317
Environment	Not classified.

Classification (1999/45/EEC) R42/43. C;R34.

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

Human health

No further information

2.2. Label elements

Contains 2-PIPERAZIN-1-YLETHYLAMINE
 PIPERAZINE
 TRIETHYLENETETRAMINE

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



Signal Word Danger

Hazard Statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.

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P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P501	Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements

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.
P304+341	IF INHALED: If breathing is difficult, 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.
P405	Store locked up.

2.3. Other hazards

No data available / Not applicable

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
PIPERAZINE	1-5%
CAS-No.: 110-85-0	EC No.: 203-808-3
Classification (EC 1272/2008) Skin Corr. 1B - H314 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Repr. 2 - H361fd	Classification (67/548/EEC) Repr. Cat. 3;R62,R63 C;R34 R42/43
TRIETHYLENETETRAMINE	1-5%
CAS-No.: 112-24-3	EC No.: 203-950-6
Classification (EC 1272/2008) Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC) C;R34 Xn;R21 R43 R52/53

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

Inhalation

Move to fresh air in case of accidental inhalation of vapours. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention.

Ingestion

DO NOT INDUCE VOMITING! Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Skin contact

Remove contaminated clothes and rinse skin thoroughly with water. Continue to rinse for at least 15 minutes. Wash contaminated clothes before reuse. Seek medical advice.

Eye contact

Flush with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical advice.

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

General information

No further relevant information available.

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

See section: Description of first aid measures.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Carbon dioxide, Dry chemical, Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Oxides of: Carbon, Nitrogen, Ammonia or amines.

Unusual Fire & Explosion Hazards

Irritating or toxic gases or fumes may be generated by thermal decomposition or combustion.

5.3. Advice for firefighters

Special Fire Fighting Procedures

No specific fire fighting procedure given.

Protective equipment for fire-fighters

Wear self-contained respiratory protective device.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8. Maintain good ventilation.

6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13.

6.3. Methods and material for containment and cleaning up

Take up with an inert absorbent. Store in a closed waste container until disposal.

6.4. Reference to other sections

See section 7 for information on safe handling.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use only in well ventilated areas. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry area. Store away from: Acids, Oxidising material.

7.3. Specific end use(s)

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
PIPERAZINE	WEL		0.1 mg/m3(Sen)		0.3 mg/m3(Sen)	

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



Respiratory equipment

Local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product. An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

Hand protection

Neoprene gloves are recommended. Nitrile.

Eye protection

Wear approved safety goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber.
Odour	Ammonia.
Solubility	Slight
Initial boiling point and boiling range	Not determined. ~ 100 C
Melting point (°C)	Not available.
Vapour density (air=1)	>1
Vapour pressure	~ 18 mm Hg
Evaporation rate	<1 (BUTYL ACETATE = 1)
pH-Value, Conc. Solution	ALKALINE
Viscosity	Not available.
Decomposition temperature (°C)	Not available.
Odour Threshold, Lower	Not available.
Odour Threshold, Upper	Not available.
Flash point	88
Auto Ignition Temperature (°C)	Not available.
Flammability Limit - Lower(%)	Not available.
Flammability Limit - Upper(%)	Not available.
Partition Coefficient (N-Octanol/Water)	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information

No data available / Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable at normal conditions

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Hazardous polymerisation does not occur

10.4. Conditions to avoid

Excessive heat

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Reactive metals Acids Materials reactive with hydroxyl compounds, Sodium.calcium hypochlorite, Peroxides Chlorinated organic compounds

10.6. Hazardous decomposition products

Oxides of: Carbon. Nitrogen. Ammonia or amines.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

See section 3

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

There are no data on the ecotoxicity of this product.

12.1. Toxicity

No data is available on the product itself

12.2. Persistence and degradability

No further relevant information available

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

12.4. Mobility in soil

Mobility:

No further relevant information available

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

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General information

Dispose of in accordance with local and national regulations

13.1. Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

General

Not hazardous according to RID, ADR, ADNR, IMDG. IATA-DGR

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

Not known.

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

No data available / Not applicable

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Date

4/12/2013

Risk Phrases In Full

R34	Causes burns.
R21/22	Harmful in contact with skin and if swallowed.
R21	Harmful in contact with skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R63	Possible risk of harm to the unborn child.
R62	Possible risk of impaired fertility.

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Hazard Statements In Full

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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility or the unborn child.

Disclaimer

PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the material safety data sheets (MSDS) for this and all other products being used are understood by all persons who will work with the product. , WARRENTY: all products purchased from or supplied by Bondloc are subject to terms and conditions set out in the contract. Bondloc warrants only that it's product will meet those specifications designated as such here in or in other publications. All other information supplied by Bondloc is considered accurate but are furnished on the expressed condition the customer shall make its own assesment to determine the products' suitability for a particular purpose. Bondloc makes no other warrenty, either expressed or implied, including those regarding such other information, the data upon which the same is based, all the results to be obtained from the use there of; that any product shall be merchantable or fit for any particular purpose; all that the use of such other information or products will not infringe any patent.