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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

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Version 3.0	Revision Date 03.04.2015	Print Date 07.04.2015	GB / EN
	Date of last issue: 24.06.2014		
	Date of first issue: 22.12.2009		

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Commercial Product Name : Bond + Seal Fast Black 310ml  
Product code : 00890 100 073  
SDS-Identcode : 10033272

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

Use of the Substance/Mixture : Construction material

**1.3 Details of the supplier of the safety data sheet**

Company : Würth UK Ltd  
1 Centurion Way  
Erith, Kent  
United Kingdom  
Telephone : +44 (0)3300 555 444  
Telefax : +44 (0)3300 555 666  
Company : WÜRTH IRELAND LTD.  
Monaclinoe Ind. Est. Ballysimon Road  
Limerick  
Ireland  
Telephone : +353 61 430200  
Telefax : +353 61 412428  
Responsible/issuing person : E-mail address: prodsafe@wuerth.com

**1.4 Emergency telephone number**

National Chemical Emergency Centre  
+44 (0)870 190 6777

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.

**Classification (67/548/EEC, 1999/45/EC)**

Sensitising	R42: May cause sensitisation by inhalation.
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according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

GB / EN

Date of last issue:

24.06.2014

Date of first issue:

22.12.2009

---

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H334

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

H373

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

:

**Prevention:**

P260

Do not breathe mist or vapours.

P284

Wear respiratory protection.

**Response:**

P304 + P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342 + P311

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

**Disposal:**

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- low boiling point hydrogen treated naphtha
- 4,4'-methylenediphenyl diisocyanate

**Additional Labelling:**

EUH204 Contains isocyanates. May produce an allergic reaction.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

**SAFETY DATA SHEET**
*according to Regulation (EC) No. 1907/2006*
**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

GB / EN

Date of last issue:

24.06.2014

Date of first issue:

22.12.2009

**Hazardous components**

Chemical Name	CAS-No.	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]
	EC-No.			
	Registration number			
xylene	1330-20-7	R10 Xn; R20/21 Xi; R38	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315	>= 2 - < 3
	215-535-7			
low boiling point hydrogen treated naphtha	64742-82-1	R10 N; R51/53 Xn; R48/20-R65 R66-R67	Flam. Liq. 3; H226 STOT SE 3; H336 STOT RE 1; H372 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2 - < 2,5
	265-185-4			
4,4'-methylenediphenyl diisocyanate	101-68-8	Carc.Cat.3; R40 Xn; R20-R48/20 Xi; R36/37/38 R42/43	Acute Tox. 4; H332 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	>= 0,75 - < 1
	202-966-0			

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : Symptoms of poisoning may appear several hours later. Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- If inhaled : If breathed in, move person into fresh air. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

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---

- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician. Wash off with polyethylene glycol and afterwards with plenty of water.
- In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

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

No data available

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

No data available

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Dry powder, Carbon dioxide (CO<sub>2</sub>), Water spray, Water mist, Foam

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must

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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

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Date of first issue:

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---

be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist.

**6.2 Environmental precautions**

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Do not flush with water. Clean contaminated surface thoroughly.

**6.4 Reference to other sections**

see chapter: 7, 8, 11, 12 and 13

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8. Use with local exhaust ventilation. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Handle with care. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : Not applicable

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store in original container. Keep in a well-ventilated place. Do not keep the container sealed.

Advice on common storage : Incompatible with oxidizing agents.

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**SAFETY DATA SHEET**
*according to Regulation (EC) No. 1907/2006*
**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

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Keep away from food, drink and animal feedingstuffs. Never allow product to get in contact with water during storage.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**

Components	CAS-No.	Control parameters	Basis	Update
xylene	1330-20-7	TWA: 220 mg/m <sup>3</sup> , 50 ppm Sk, STEL: 441 mg/m <sup>3</sup> , 100 ppm Sk,	GB EH40	2005-04-06
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA: 0,02 mg/m <sup>3</sup> , 53+54, 55, Sen, 56, STEL: 0,07 mg/m <sup>3</sup> , 53+54, 55, Sen, 56,	GB EH40	2011-12-01
xylene	1330-20-7	TWA: 221 mg/m <sup>3</sup> , 50 ppm skin, STEL: 442 mg/m <sup>3</sup> , 100 ppm skin,	2000/39/EC	2009-12-19

Other information on limit values: see chapter 16

**8.2 Exposure controls**
**Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.  
Highly effective exhaust ventilation

**Personal protective equipment**

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

---

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

GB / EN

Date of last issue:

24.06.2014

Date of first issue:

22.12.2009

---

Respirator with combination filter for vapour/particulate (EN 141)  
Respirator with filter type A

Hand protection

Material : Nitrile rubber

Material : butyl-rubber

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : In case of splash hazard, please wear protective goggles.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
General industrial hygiene practice.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Follow the skin protection plan.  
Take off all contaminated clothing immediately.  
Wash contaminated clothing before re-use.

**Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

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**SAFETY DATA SHEET***according to Regulation (EC) No. 1907/2006***00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

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Date of last issue:

24.06.2014

Date of first issue:

22.12.2009

---

Appearance	: paste
Colour	: various
Odour	: characteristic
Odour Threshold	: No data available
Flash point	: > 65 °C Method: closed cup
Ignition temperature	: No data available
Thermal decomposition	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Explosive properties	: No data available
Flammability	: No data available
Oxidizing properties	: No data available
Auto-ignition temperature	: No data available
Burning number	: No data available
Molecular weight	: No data available
pH	: No data available
Vapour pressure	: No data available
Density	: ca. 1,27 g/cm <sup>3</sup> at 20 °C
Bulk density	: No data available
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: No data available
Flow time	: No data available
Impact sensitivity	: No data available
Relative vapour density	: No data available
Surface tension	: No data available
Evaporation rate	: No data available
Minimum ignition energy	: No data available
Acid number	: No data available
Refraction index	: No data available
Miscibility in water	: No data available
Solvent separation test	: No data available

**9.2 Other information**

None known.



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according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

GB / EN

Date of last issue:

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Date of first issue:

22.12.2009

---

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available

**10.2 Chemical stability**

The product is chemically stable.

**10.3 Possibility of hazardous reactions**

Stability : No decomposition if stored and applied as directed.

Evolution of CO<sub>2</sub> in closed containers causes overpressure and produces a risk of bursting. Mixture reacts slowly with water resulting in evolution of CO<sub>2</sub>.

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Materials to avoid : Oxidizing agents  
Water

**10.6 Hazardous decomposition products**

Hazardous decomposition products : Carbon oxides, Halogenated compounds, Metal oxides

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**Acute oral toxicity:

low boiling point hydrogen treated naphtha : LD50 Rat: > 5.000 mg/kg

4,4'-methylenediphenyl diisocyanate : LD50 Rat: > 2.000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l  
Test atmosphere: vapour

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according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

GB / EN

Date of last issue:

24.06.2014

Date of first issue:

22.12.2009

---

Exposure time: 4 h

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method

Acute toxicity (other routes of administration):

No data available

**Skin corrosion/irritation**

xylene : Severe skin irritation

low boiling point hydrogen treated naphtha : Repeated exposure may cause skin dryness or cracking.

4,4'-methylenediphenyl diisocyanate : Species: Rabbit  
irritating**Serious eye damage/eye irritation**4,4'-methylenediphenyl diisocyanate : Species: Rabbit  
Eye irritation**Respiratory or skin sensitisation**Sensitisation : May cause sensitisation by inhalation.**Germ cell mutagenicity**Genotoxicity in vitro:

No data available

Genotoxicity in vivo:

No data available

**Carcinogenicity**

Remarks

low boiling point hydrogen treated naphtha : Carcinogenicity:  
Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Mutagenicity:

Classified based on benzene content &lt; 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

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according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

GB / EN

Date of last issue:

24.06.2014

Date of first issue:

22.12.2009

---

4,4'-methylenediphenyl diisocyanate : Carcinogenicity:  
Limited evidence of carcinogenicity in animal studies

Mutagenicity:  
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Reproductive toxicity**

4,4'-methylenediphenyl diisocyanate : Note: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**Teratogenicity**

No data available

**STOT - single exposure**

low boiling point hydrogen treated naphtha : May cause drowsiness or dizziness.

4,4'-methylenediphenyl diisocyanate : May cause respiratory irritation.

**STOT - repeated exposure**

low boiling point hydrogen treated naphtha : Target Organs: Central nervous system  
Causes damage to organs through prolonged or repeated exposure.

4,4'-methylenediphenyl diisocyanate : May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**Aspiration toxicity

low boiling point hydrogen treated naphtha : May be fatal if swallowed and enters airways.

**Neurological effects**

No data available

**Toxicology Assessment**Toxicology, Metabolism, Distribution

No data available

Acute effects

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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

GB / EN

Date of last issue:

24.06.2014

Date of first issue:

22.12.2009

---

No data available

**Further information**

: Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

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**SECTION 12: Ecological information****12.1 Toxicity**Toxicity to fish

4,4'-methylenediphenyl diisocyanate : LC0 (Oryzias latipes (Orange-red killifish)): > 3.000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

4,4'-methylenediphenyl diisocyanate : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

Toxicity to algae

4,4'-methylenediphenyl diisocyanate : EC50 : > 1.640 mg/l  
Exposure time: 72 h

NOEC : 1.640 mg/l  
Exposure time: 72 h

Toxicity to bacteria

4,4'-methylenediphenyl diisocyanate : EC50 : > 100 mg/l  
Exposure time: 3 h  
Test Method: Respiration inhibition of activated sludge

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

4,4'-methylenediphenyl diisocyanate : NOEC: >= 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

**Ecotoxicology Assessment**

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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

GB / EN

Date of last issue:

24.06.2014

Date of first issue:

22.12.2009

---

Chronic aquatic toxicity

low boiling point hydrogen treated naphtha : Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

Biodegradability

4,4'-methylenediphenyl diisocyanate : Result: Not readily biodegradable.

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Advice on disposal and packaging : Disposal:  
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of as hazardous waste. Do not dispose of together with household waste.  
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):  
080409, waste adhesives and sealants containing organic solvents or other dangerous substances

Waste key (used product):  
080409, waste adhesives and sealants containing organic solvents

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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

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GB / EN

Date of last issue:

24.06.2014

Date of first issue:

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---

or other dangerous substances

Disposal of uncleaned packaging

: Waste key (uncleaned packaging):  
150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.

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**SECTION 14: Transport information****14.1 UN number**

**ADN**

Not dangerous goods

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.2 Proper shipping name**

**ADN**

Not dangerous goods

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.3 Transport hazard class(es)**

**ADN**

Not dangerous goods

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.4 Packing group**

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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

GB / EN

Date of last issue:

24.06.2014

Date of first issue:

22.12.2009

---

**ADN**

Not dangerous goods

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.5 Environmental hazards****ADN**

Not dangerous goods

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.6 Special precautions for user**

see chapter: 6, 7 and 8

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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**SAFETY DATA SHEET**
*according to Regulation (EC) No. 1907/2006*
**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0	Revision Date 03.04.2015	Print Date 07.04.2015	GB / EN
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---

VOC : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
2,7 %

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances	: Update: 2003	Quantity 1	Quantity 2
	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2.500 t	25.000 t

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Update:		
	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2.500 t	25.000 t

Update:		
Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)	2.500 t	25.000 t

National legislation



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according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

Print Date 07.04.2015

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Date of first issue:

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---

Other regulations : Take note of Dir 94/33/EC on the protection of young people at work.

Further information : Ensure a continuous supply of fresh air during and after operation.  
Persons who suffer from allergies or who have a chronic disposition to respiratory illness must not be required to work with this material.  
Reserved for industrial and professional use.

**15.2 Chemical Safety Assessment**

No data available

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**SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

R10	Flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R42	May cause sensitisation by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

**Full text of H-Statements referred to under sections 2 and 3.**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Other information

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**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**00890 100 073 - Bond + Seal Fast Black 310ml**

Version 3.0

Revision Date 03.04.2015

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GB / EN

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22.12.2009

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53+54	Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers.
55	Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance.
56	The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.
Sen	Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagens? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma.
Sk	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
skin	Identifies the possibility of significant uptake through the skin

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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**SAFETY DATA SHEET**

*according to Regulation (EC) No. 1907/2006*

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