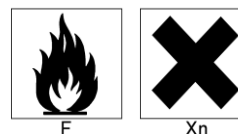


# Safety Data Sheet

## ARCO BITUPRIMER BIT 40/60



Safety Data Sheet dated 6/9/2007, version 10

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

ARCO BITUPRIMER BIT 40/60

Product type and use: bituminous primer in solvents for building industry

### 2. HAZARDS IDENTIFICATION

Properties / Symbols:

Toxic for reproduction category 3  
F Highly flammable  
Xn Harmful  
Xi Irritant

R Phrases:

R11 Highly flammable.  
R20/21 Harmful by inhalation and in contact with skin.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R63 Possible risk of harm to the unborn child  
R65 Harmful: may cause lung damage if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

It is based of: mixture of bitumen, toluene, xylene, aliphatic hydrocarbons, alcohols, acetates  
Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

<50 % xylene [4]

601-022-00-9 1330-20-7 215-535-7  
Xn,Xi; R10-20/21-38

<50 % toluene

601-021-00-3 108-88-3 203-625-9  
F,Repr. Cat. 3,Xn,Xi; R11-38-48/20-63-65-67

<10 % Solvent naphtha (petroleum), light arom

649-356-00-4 64742-95-6 265-199-0  
Xn,Xi,N; R10-37-51-53-66-67-65

<5 % ethyl acetate

607-022-00-5 141-78-6 205-500-4  
F,Xi; R11-36-66-67

<5 % di-methylamine [2]

612-001-00-9 124-40-3 204-697-4  
F+,Xn,Xi; R12-20-37/38-41

<1 % hexamethylenediamine

612-104-00-9 124-09-4 204-679-6  
Xn,Xi,C; R21/22-34-37

<5 % 1,2-dichloropropane

602-020-00-0 78-87-5 201-152-2  
F,Xn; R11-20/22

<1 % butanol

603-004-00-6 78-83-1 201-148-0  
Xn; R10-20

<1 % 2-butoxyethanol

603-014-00-0 111-76-2 203-905-0  
Xn,Xi; R20/21/22-36/38

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- <1 % methanol  
603-001-00-X 67-56-1 200-659-6  
F,T; R11-23/24/25-39/23/24/25
- <1 % butanone  
606-002-00-3 78-93-3 201-159-0  
F,Xi; R11-36-66-67
- <1 % tetrahydrofuran  
603-025-00-0 109-99-9 203-726-8  
F,Xi; R11-19-36/37
- <1 % Isopropyl alcohol  
603-003-00-0 67-63-0 200-661-7  
F; R11; substance with a Community workplace exposure limit
- <1 % butylamine  
612-005-00-0 109-73-9 203-699-2  
F,Xn,C; R11-20/21/22-35

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### 4. FIRST AID MEASURES

- Contact with skin:  
Immediately take off all contaminated clothing.  
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
- Contact with eyes:  
Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).  
Wash immediately with water for at least 10 minutes.
- Swallowing:  
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.  
Give liquid paraffin to drink; do not give milk or animal or vegetable fats of any kind.
- Inhalation:  
Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

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### 5. FIRE-FIGHTING MEASURES

- Recommended extinguishers:  
In case of fire, use foam,CO2,water nebulized.
- Extinguishers not to be used:  
None in particular.
- Risks arising from combustion:  
Avoid inhaling the fumes.
- Protective equipment:  
Use protection for the respiratory tract.  
Cool the containers exposed to the fire with water.

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### 6. ACCIDENTAL RELEASE MEASURES

- Measures for personal safety:  
Use a mask, gloves and protective clothing.
- Environmental measures:  
Limit leakages with earth or sand.  
Eliminate all unguarded flames and possible sources of ignition. Do not smoke.  
If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.
- Cleaning methods:  
Rapidly recover the product. To do so, wear a mask and protective clothing.

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If the product is in a liquid form, stop it from entering the drainage system.  
Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.  
After the product has been recovered, rinse the area and materials involved with water.

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### 7. HANDLING AND STORAGE

#### Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.  
Do not eat or drink while working.  
Do not smoke while working.

#### Incompatible materials:

None in particular.

#### Storage conditions:

Always keep the containers tightly closed.  
Always keep in a well ventilated place.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

#### Instructions as regards storage premises:

Cool and adequately ventilated.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

#### Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).  
Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

#### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

#### Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

#### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

#### Exposure limit(s) (ACGIH):

##### xylene [4]

VLE 8h: 221 mg/m<sup>3</sup> - 50 ppm VLE short: 442 mg/m<sup>3</sup> - 100 ppm : 100 ppm, A4 - 434,19 mg/m<sup>3</sup>, A4  
: 150 ppm, A4 - 651,29 mg/m<sup>3</sup>, A4

##### toluene

: 50 ppm, A4 - 188,4 mg/m<sup>3</sup>, A4 Skin : A4 Skin

##### ethyl acetate

: 400 ppm - 1441,31 mg/m<sup>3</sup>

##### di-methylamine [2]

VLE 8h: 3,8 mg/m<sup>3</sup> - 2 ppm VLE short: 9,4 mg/m<sup>3</sup> - 5 ppm : 5 ppm, A4 - 9,22 mg/m<sup>3</sup>, A4 : 15 ppm,  
A4 - 27,66 mg/m<sup>3</sup>, A4

##### hexamethylenediamine

: 0,5 ppm - 2,38 mg/m<sup>3</sup>

##### 1,2-dichloropropane

: 75 ppm, A4 - 346,6 mg/m<sup>3</sup>, A4 : 110 ppm, A4 - 508,34 mg/m<sup>3</sup>, A4

##### butanol

: 50 ppm - 151,57 mg/m<sup>3</sup>

##### 2-butoxyethanol

VLE 8h: 98 mg/m<sup>3</sup> - 20 ppm VLE short: 246 mg/m<sup>3</sup> - 50 ppm : 20 ppm, A3 - 96,66 mg/m<sup>3</sup>, A3 : A3

##### methanol

: 200 ppm - 262,09 mg/m<sup>3</sup> Skin : 250 ppm - 327,61 mg/m<sup>3</sup> Skin

##### butanone

VLE 8h: 600 mg/m<sup>3</sup> - 200 ppm VLE short: 900 mg/m<sup>3</sup> - 300 ppm : 200 ppm - 589,78 mg/m<sup>3</sup> : 300  
ppm - 884,66 mg/m<sup>3</sup>

##### tetrahydrofuran

VLE 8h: 150 mg/m<sup>3</sup> - 50 ppm VLE short: 300 mg/m<sup>3</sup> - 100 ppm : 50 ppm, A3 - 147,44 mg/m<sup>3</sup>, A3  
Skin : 100 ppm, A3 - 294,89 mg/m<sup>3</sup>, A3 Skin

##### Isopropyl alcohol

: 200 ppm, A4 - 491,53 mg/m<sup>3</sup>, A4 : 400 ppm, A4 - 983,07 mg/m<sup>3</sup>, A4

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butylamine  
: Skin : C 5 ppm - C 14,96 mg/m<sup>3</sup> Skin

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Black liquid.  
Odour: N.A.  
pH: N.A.  
Melting point: N.A.  
Boiling point: N.A.  
Flash point: <21°C  
Solid/gas flammability: N.A.  
Autoignition temperature: >200°C  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Vapour pressure: N.A.  
Relative density: 0.90-1.10 Kg/l  
Solubility in water: No  
Lipid solubility: N.A.  
Partition c. (n-octanol/H<sub>2</sub>O): N.A.  
Vapour density: N.A.

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### 10. STABILITY AND REACTIVITY

Conditions to avoid:  
Stable under normal conditions.  
Substances to avoid:  
Avoid contact with combustible materials. The product could catch fire.  
Hazardous decomposition products:  
None.

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### 11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation.

toluene	LD50 (RABBIT) SKIN: 14 G/KG (14000 MG/KG) LD50 (RAT) YOUNGADULTS ORAL: 5542 MG/KG BW
ethyl acetate	LD50 (RABBIT) ORAL: 4935 MG/KG
di-methylamine [2]	LD50 (RAT) ORAL: 698 MG/KG
1,2-dichloropropane	LD50 (RABBIT) SKIN: 8750 MG/KG
butanol	LD50 (RAT) ORAL: 2460 MG/KG
2-butoxyethanol	LD50 (RABBIT) ORAL: 320 MG/KG
methanol	LD50 (RAT) ORAL SINGLE DOSE: 5628 MG/KG LD50 (RABBIT) SKIN SINGLE DOSE: 15800 MG/KG
butanone	LD50 (RABBIT) SKIN: 13 G/KG (13000 MG/KG)

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### 12. ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

<10% Solvent naphtha (petroleum), light arom  
649-356-00-4 64742-95-6 265-199-0

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 13. DISPOSAL CONSIDERATIONS

Type of refusal: Special dangerous.

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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### 14. TRANSPORT INFORMATION

ONU Number: 1263  
Kemler Number: 33  
Label: 3  
Class+Packing Group: 3,II

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### 15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).



Xn



F

Symbols:

Xn Harmful  
F Highly flammable

R Phrases:

R11 Highly flammable.  
R20/21 Harmful by inhalation and in contact with skin.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R63 Possible risk of harm to the unborn child  
R65 Harmful: may cause lung damage if swallowed.

S Phrases:

S16 Keep away from sources of ignition - No smoking.  
S25 Avoid contact with eyes.  
S29 Do not empty into drains.  
S36/37 Wear suitable protective clothing and gloves.  
S43 In case of fire, use foam, CO<sub>2</sub>, water nebulized.  
S7/9 Keep container tightly closed and in a well-ventilated place.

Contents:

xylene [4]  
toluene

VOC (Directive 2004/42/CE):

BINDING PRIMER EU content limit value for this product: (cat. A/h/BS): 750 g/l (2010)

VOC max. content: 600 g/l

1999/13/EC (VOC directive)

Volatile Organic compounds - VOCs = 60.00 %

Volatile Organic compounds - VOCs = 552.00 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.04

Where applicable, refer to the following regulatory provisions :

Presidential Decree D.P.R. 303/56 (Health checks).

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Ministerial circulars 46 e 61 (Aromatic amines).  
Law 136/83 (Biodegradability of detergents).  
Directive 2003/105/CE ('Activities linked to risks of serious accidents').  
Presidential Decree D.P.R. 250/89 (Labelling of detergents).  
1999/13/EC (VOC directive)  
1999/13/EC (VOC directive)  
Volatile Organic compounds - VOCs = 0,00%  
Volatile CMR substances = 0,00%  
Halogenated VOCs which are assigned the risk phrase R40 = 0,00%  
Organic Carbon - C = 0,00

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### 16. OTHER INFORMATION

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)  
I.N.R.S. - Fiche Toxicologique  
ACGIH - Threshold Limit Values - 2004 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Text of R phrases referred to under heading 3:

R10 Flammable.  
R11 Highly flammable.  
R12 Extremely flammable.  
R19 May form explosive peroxides.  
R20 Harmful by inhalation.  
R20/21 Harmful by inhalation and in contact with skin.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R20/22 Harmful by inhalation and if swallowed.  
R21/22 Harmful in contact with skin and if swallowed.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R34 Causes burns.  
R35 Causes severe burns.  
R36 Irritating to eyes.  
R36/37 Irritating to eyes and respiratory system.  
R36/38 Irritating to eyes and skin.  
R37 Irritating to respiratory system.  
R37/38 Irritating to respiratory system and skin.  
R38 Irritating to skin.  
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
R41 Risk of serious damage to eyes.  
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.  
R63 Possible risk of harm to the unborn child  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

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