

## Adhesives

Order code	Manufacturer code	Description
87-0432	n/a	BISON CONTACT ADHESIVE 50ML
87-0434	n/a	CONTACT ADHESIVE 100ML

Adhesives	Page 1 of 11
The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

# Material Safety Data Sheet

According to 91/155 EC

Printing date 01.11.2000

Reviewed on 10.10.2000

## • 1 Identification of the substance/preparation and of the

### company/undertaking

o Product details

o Trade name: Bison Kit

o **Manufacturer/Supplier:**

Bison International  
Dr.A.F.Philipsstraat 9  
NL-4462 EW Goes  
PO Box 160  
NL-4460 AD Goes  
tel. +31 113 248248  
fax. +31 113 232077

o Further information obtainable from: R & D laboratory

o Information in case of emergency: +31 113 248248

## • 2 Composition/information on ingredients

o Chemical characterization

o Description: Adhesive

### Dangerous components:

---

110-82-7 cyclohexane

25-50 %

Xn, F, N; R 11-38-50/53-65-67

78-93-3 methylethylketon

10-25 %

Xi, F; R 11-36-66-67

64742-49-0 Naphtha (petroleum), hydrotreated light

10-25 %

Xn, F; R 11-38-65-67

141-78-6 ethyl acetate

10-25 %

Xi, F; R 11-36-66-67

---

• \* **3 Hazards identification**

◦ **Hazard description:**

Xi Irritant

F Highly flammable

◦ **Information concerning to particular hazards to man and environment:**

R 11 Highly flammable.

R 36/38 Irritating to eyes and skin.

R 67 Vapours may cause drowsiness and dizziness

◦ **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

---

• **4 First-aid measures**

◦ **After inhalation:**

In case of unconsciousness place patient stable in side position for transportation.

◦ **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

◦ **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

◦ **After swallowing:**

Do not induce vomiting; call for medical help immediately.

• **5 Fire-fighting measures**

◦ **Suitable extinguishing agents:**

Water haze  
Alcohol resistant foam  
Fire-extinguishing powder  
Carbon dioxide

◦ **For safety reasons unsuitable extinguishing agents:** Water with full jet

◦ **Protective equipment:** Mount respiratory protective device.

◦ **Additional information**

Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

• **6 Accidental release measures**

◦ **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

◦ **Measures for environmental protection:**

Prevent seepage into sewage system, workpits and cellars.  
Do not allow to enter sewers/ surface or ground water.

◦ **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

• 7 Handling and storage

◦ Handling:

◦ Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.  
Ensure good interior ventilation, especially at floor level.  
(Fumes are heavier than air).

◦ Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

◦ Storage:

◦ Requirements to be met by storerooms and receptacles:

Store in a cool location.

◦ Information about storage in one common storage facility: Not required.

◦ Further information about storage conditions:

Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

• 8 Exposure controls/personal protection

◦ Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

110-82-7 cyclohexane

OEL: Short-term value: 1050 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 350 mg/m<sup>3</sup>, 100 ppm

78-93-3 methylethylketon

OEL: Short-term value: 899 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
Sk Bmg

141-78-6 ethyl acetate  
OEL: 1460 mg/m<sup>3</sup>, 400 ppm

o **Additional information:**

The lists valid during the making were used as basis.

o **Personal protective equipment:**

o **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

o **Respiratory protection:** Not required.

o **Protection of hands:**

Protective gloves

Solvent resistant gloves

o **Eye protection:** Tightly sealed goggles

o **Body protection:**

Use protective suit.

Solvent resistant protective clothing

• **9 Physical and chemical properties**

o **Form:** Fluid

o **Colour:** According to product specification

o **Odour:** Characteristic

o 

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
--	--------------------	-------------	---------------

o **Change in condition**

o **Melting point/Melting range:** Undetermined.

- o Boiling point/Boiling range: 60 ° C
- o Flash point: < 0 ° C
- o Ignition temperature: 260.0 ° C
- o Self-igniting: Product is not selfigniting.
- o Danger of explosion:
 

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- o Explosion limits:
  - o Lower: 1.2 Vol %
  - o Upper: 11.5 Vol %
- o Vapour pressure: at 20 ° C 105.0 hPa
- o Density: at 20 ° C 0.855 g/cm<sup>3</sup>
- o Solubility in / Miscibility with
  - o water: Not miscible or difficult to mix.
- o Viscosity:
  - o Dynamic: at 20 ° C 3500 mPas
- o Organic solvents: 60.5 %
- o Water: 0.2 %
- o Solids content: 24.9 %

• **10 Stability and reactivity**

◦ **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

◦ **Dangerous reactions** No dangerous reactions known.

◦ **Dangerous decomposition products:**

Danger of forming toxic pyrolysis products.

• **11 Toxicological information**

◦ **Acute toxicity:**

LD/Lc50 values relevant for classification:

110-82-7 cyclohexane

Oral: LD50: 12705 mg/kg (rat)

◦ **Primary irritant effect:**

◦ **on the skin:** Irritant to skin and mucous membranes.

◦ **on the eye:** Irritating effect.

◦ **Sensitization:** No sensitizing effects known.

◦ **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant.

• **12 Ecological information**

◦ **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment):  
slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.



• 13 Disposal considerations

○ **Product:**

○ **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

○ **Uncleaned packaging:**

○ **Recommendation:**

Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

• 14 Transport information

○ **Land transport ADR/RID (cross-border)**

○ **ADR/RID class:** 3 Flammable liquids.

○ **Item:** 5c

○ **Danger code (Kemler):** 33

○ **UN-Number:** 1133

○ **Hazard label** 3

○ **Description of goods:** 1133 Adhesives

○ **Maritime transport IMDG:**

○ **IMDG Class:** 3.2

○ **Page:** 3174

○ **UN Number:** 1133

○ **Packaging group:** III

- o EMS Number: 3-05
- o MFAG: 330
- o Marine pollutant: No
- o Proper shipping name: Adhesives
  
- o Air transport ICAO-TI and IATA-DGR:
- o ICAO/IATA Class: 3
- o UN/ID Number: 1133
- o Packaging group: III
- o Proper shipping name: Adhesives

• **\*15 Regulatory information**

o **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

o **Code letter and hazard designation of product:**

Xi Irritant F Highly flammable

o **Risk phrases:**

11 Highly flammable.  
36/38 Irritating to eyes and skin.  
67 Vapours may cause drowsiness and dizziness

o **Safety phrases:**

9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
24/25 Avoid contact with skin and eyes.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
46 If swallowed, seek medical advice immediately and show

this container or label.

o **National regulations:**

o **Technical instructions (air):**

**Class Share in %**

Water <= 2,5

II <= 2,5

III 50-100

o **Waterhazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

• **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

o **Department issuing MSDS:** R & D laboratory

o **Contact:** M.L. de Jager