Material Safety Data Sheet

According to 91/155 EC
Printing date 13.02.2002 Reviewed on 26.10.2001

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name: Montagekit**
- **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
- **Further information obtainable from:** R & D Department
- **Information in case of emergency:** +31 113 248248

* 2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Adhesive

Dangerous components:

1317-65-3	calcium carbonate	25-50 %
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 11-38-52/53-65-67	
108-88-3	toluene	10-25 %
	Xn, F; R 11-20	

3 Hazards identification

- **Hazard description:** F Highly flammable
- **Information concerning to particular hazards to man and environment:**
  R 11 Highly flammable.
  R 66 Repeated exposure may cause skin dryness or cracking
  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:**
  Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **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, work pits 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).

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:
  1317-65-3 calcium carbonate
  OEL: 10 mg/m³
  TID; RD:4mg/m³ 8hrs
  78-93-3 methylethylketon
  OEL: Short-term value: 899 mg/m³, 300 ppm
  Long-term value: 600 mg/m³, 200 ppm
  Sk Bmg
  108-88-3 toluene
  OEL: Short-term value: 574 mg/m³, 150 ppm
  Long-term value: 191 mg/m³, 50 ppm
  Sk
- **Additional information:**
  The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
  The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

- **Respiratory protection:** Not required.
- **Protection of hands:**
  Protective gloves
  Solvent resistant gloves
- **Eye protection:** Tightly sealed goggles
- **Body protection:** Solvent resistant protective clothing

* 9 Physical and chemical properties

- **Form:** Fluid
- **Colour:** According to product specification
- **Odour:** Characteristic

		Value/Range	Unit	Method
Change in condition				
Melting point/Melting range:		Undetermined.		
Boiling point/Boiling range:		60	° C	
Flash point:		< 0	° C	
Ignition temperature:		514.0	° C	
Self-igniting:		Product is not selfigniting.		
Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.				
Explosion limits:				
Lower:		1.2	Vol %	
Upper:		11.5	Vol %	
Vapour pressure:	at 20 ° C	105.0	hPa	
Density:	at 20 ° C	1.130	g/cm³	
Solubility in / Miscibility with water:		Not miscible or difficult to mix.		
Viscosity:				
Dynamic:	at 20 ° C	150000	mPas	
Organic solvents:		39.3	%	
Solids content:		60.7	%	

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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **General notes:**
  Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  Danger to drinking water if even small quantities leak into the ground.

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 (F1) Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1133
- **Packaging group:** III
- **Hazard label** 3
- **Description of goods:** 1133 ADHESIVES (with a flash point below 23°C
  and viscous according 2.2.3.1.4)

(vapor pressure at 50°C at most 110 kPa)

- **Maritime transport IMDG:**
- **IMDG Class:** 3
- **UN Number:** 1133
- **Label** 3
- **Packaging group:** III
- **EMS Number:** 3-05
- **Marine pollutant:** No
- **Proper shipping name:** ADHESIVES

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1133
- **Label** 3
- **Packaging group:** III
- **Proper shipping name:** ADHESIVES

*15 Regulatory information

- **Labelling according to EU guidelines:**
  The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:** F Highly flammable

- **Risk phrases:**
  11 Highly flammable.
  66 Repeated exposure may cause skin dryness or cracking
  67 Vapours may cause drowsiness and dizziness

- **Safety phrases:**
  9 Keep container in a well-ventilated place.
  16 Keep away from sources of ignition - No smoking.
  24 Avoid contact with skin.
  33 Take precautionary measures against static discharges.
  51 Use only in well-ventilated areas.

- **National regulations:**

- **Technical instructions (air):**
  Class Share in %
  II 10-25
  III 10-25

- **Waterhazard class:**
  Water hazard class 2 (Self-assessment): 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.

- **Department issuing MSDS:** R & D laboratory
- **Contact:** M.L. de Jager