

Material Safety Data Sheet According to 91/155 EEC

Printing date 26.05.2005

Reviewed on 26.05.2005









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

- **Product details**
- **Trade name:** Hertalan KS 137
- **Application of the substance / the preparation** contact adhesive
- **Manufacturer/Supplier:**
Hertel Rubber Products
Industrieweg 16
NL 8263 AD Kampen
Tel: 0031 (0) 38 339 33 33
Fax: 0031 (0) 38 331 61 80
- **Further information obtainable from:** Tel: 0031 (0) 38 339 33 33

2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

	Low boiling point hydrogen treated naphtha  Xn,  F,  N; R 11-51/53-65-67	10-25%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane  Xn,  F,  N; R 11-38-50/53-65-67	10-25%
CAS: 78-93-3 EINECS: 201-159-0	butanone  Xi,  F; R 11-36-66-67	10-25%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:**



F Highly flammable
N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

R 11 Highly flammable.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
- **After swallowing:** If symptoms persist consult doctor.

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5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

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.
Inform respective authorities in case of seepage into water course or sewage system.
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.
Prevent formation of aerosols.
- **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 container 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 (10-25%)

OES Short-term value: 1050 mg/m³, 300 ppm
Long-term value: 350 mg/m³, 100 ppm

78-93-3 butanone (10-25%)

OES Short-term value: 899 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm
IOELV, Sk, Bmgv

471-34-1 calcium carbonate (2.5-10%)

OES Long-term value: 10*4** mg/m³
*total inhalable dust **respirable dust

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Use suitable respiratory protective device in case of insufficient ventilation.

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form: Fluid
Colour: Black
Odour: Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 60°C

· **Flash point:** -18°C

· **Ignition temperature:** 260.0°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:** 155.0 hPa

· **Density at 20°C:** 0.86 g/cm³

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Viscosity:**

Dynamic at 20°C: 3500 mPas

· **Solvent content:**

Organic solvents: 52.6 %

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· **Solids content:** 45.0 %

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:** No dangerous decomposition products known.

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

12 Ecological information

- **Ecotoxicological effects:**
 - **Remark:** Toxic for fish
 - **General notes:**
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

- **Product:**
 - **Recommendation**
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- | | |
|---------------------------------|--|
| European waste catalogue | |
| 08 04 09 | waste adhesives and sealants containing organic solvents or other dangerous substances |
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

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



- **ADR/RID class:** 3 (F1) Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1133

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- **Packaging group:** III
- **Hazard label** 3
- **Description of goods:** 1133 ADHESIVES, special provision 640H

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1133
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-D
- **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
N Dangerous for the environment

- **Risk phrases:**

11 Highly flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.
20 When using do not eat or drink.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
51 Use only in well-ventilated areas.
57 Use appropriate container to avoid environmental contamination.

- **National regulations:**

- **Technical instructions (air):**

Class	Share in %
NK	52.6

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· 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.

· Relevant R-phrases11 *Highly flammable.*36 *Irritating to eyes.*38 *Irritating to skin.*50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*65 *Harmful: may cause lung damage if swallowed.*66 *Repeated exposure may cause skin dryness or cracking.*67 *Vapours may cause drowsiness and dizziness.***· * Data compared to the previous version altered.**

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