

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 09/17/2008

Reviewed on 09/17/2008

1 Identification of substance

- **Product details**
- **Trade name:** *K 410 Wood Flooring Adhesive with VOC Control*
- **Application of the substance / the preparation** *Adhesives*
- **Manufacturer/Supplier:**
Aldo Products Company, Inc.
1604 N. Main St.
Kannapolis, N.C. 28081, USA (800) 474-601-49
- **Information department:** *Industrial Safety Department*
- **Emergency information:** *Infotrac +1 352 323 3500*

2 Composition/Data on components

- **Chemical characterization**
 - **Description:** *Adhesive*
 - **Dangerous components:**
- | | |
|--|---------|
| 67-64-1 acetone | 5<15% |
| Danger:  2.6/2 | |
| Warning:  3.3/2A, 3.8/3 | |
| 64-17-5 ethanol | 1.0-<5% |
| Danger:  2.6/2 | |

3 Hazards identification

- **Hazard description:**



F Highly flammable

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.
Highly flammable.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 3
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH 0 Health = 0
FIRE 3 Fire = 3
REACTIVITY 0 Reactivity = 0

- **GHS label elements**



Danger

2.6/2 - Highly flammable liquid and vapour.

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· **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

· **Response:**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use for extinction: CO₂, powder or water spray.

· **Storage:**

Store in a well-ventilated place. Keep cool.

· **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures

· **After inhalation:** Supply fresh air.

· **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:** Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

· **Suitable extinguishing agents:**

CO₂, extinguishing 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:**

Ensure adequate ventilation

Keep away from ignition sources

· **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· **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:** Use only in well ventilated areas.

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- **Information about protection against explosions and fires:**
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:**
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
 - **Components with limit values that require monitoring at the workplace:**
- 67-64-1 acetone**
 PEL 2400 mg/m³, 1000 ppm
 REL 590 mg/m³, 250 ppm
 TLV Short-term value: 1782 mg/m³, 750 ppm
 Long-term value: 1188 mg/m³, 500 ppm
 BEI
- 64-17-5 ethanol**
 PEL 1900 mg/m³, 1000 ppm
 REL 1900 mg/m³, 1000 ppm
 TLV 1880 mg/m³, 1000 ppm
- **Additional information:** The lists that were valid during the creation were used as basis.
 - **Personal protective equipment:**
 - **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
 - **Breathing equipment:** Not necessary if room is well-ventilated.
 - **Protection of hands:** Preventive skin protection by use of skin-protecting agents is recommended.
 - **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

- **General Information**
- | | |
|---------------|----------------|
| Form: | Pasty |
| Color: | White |
| Odor: | Characteristic |
- **Change in condition**
- | | |
|-------------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 56°C (133°F) |
- **Flash point:** -18°C (-0°F)
 - **Ignition temperature:** 250°C (482°F)
 - **Auto igniting:** Product is not selfigniting.
 - **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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- **Explosion limits:**
 - Lower:** 2.5 Vol %
 - Upper:** 15.0 Vol %
- **Vapor pressure at 20°C (68°F):** 247 hPa (185 mm Hg)
- **Density at 20°C (68°F):** 1.5 g/cm³ (EN ISO 2811-1)
- **Solubility in / Miscibility with Water:** Partly miscible.
- **Viscosity:**
 - Dynamic at 20°C (68°F):** 75000 mPas (ISO 2555)
- **Solvent content:**
 - VOC content:** 3.8 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

67-64-1 acetone

Oral LD50 5.800 mg/kg (rat)

Dermal LD50 20.000 mg/kg (rabbit)

Inhalative LC50/4h 76 mg/l (rat)
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:**

67-64-1 acetone

EC5/16h 1.700 mg/l (*Pseudomonas putida*)

EC5/72h 28 mg/l (*Entosiphon sulcatum*)

EC5/8d 530 mg/l (*Microcystis aeruginosa*)

EC50/18h 12.600-12.700 mg/l (*Daphnia magna*)

LC50/48h 11.300 mg/l (*Leuciscus idus*)

LC50/96h 11.300 mg/l (*Leuciscus idus*)

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· **General notes:**

Water hazard class 1 (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 be specially treated adhering to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **DOT regulations:**



- **Hazard class:** 3
- **Identification number:** UN1133
- **Packing group:** III
- **Proper shipping name (technical name):** ADHESIVES
- **Label:** 3

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



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 33
- **UN-Number:** 1133
- **Packaging group:** III
- **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-E
- **Marine pollutant:** No

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· **Propper shipping name:** ADHESIVES

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1133
 · **Label** 3
 · **Packaging group:** III
 · **Propper shipping name:** ADHESIVES
 · **UN "Model Regulation":** UN1133; ADHESIVES; 3; III

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed or are not required to be listed on the TSCA inventory.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5 ethanol

· **Carcinogeny categories**

· **IARC (International Agency for Research on Cancer)**

polyvinyl acetate, homopolymer: Group 3 Vol 19, Suppl 7 1987

· **NTP (National Toxicology Program)**

64-17-5 ethanol: NIEHS 1988

· **Product related hazard informations:** The product has been marked in accordance with national laws.

· **Hazard symbols:**



F Highly flammable

· **Risk phrases:**

Highly flammable.

· **Safety phrases:**

Keep out of the reach of children.

Keep container in a well-ventilated place.

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*Keep away from sources of ignition - No smoking.
Do not empty into drains.
Take precautionary measures against static discharges.
If swallowed, seek medical advice immediately and show this container or label.
Use only in well-ventilated areas.*

· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **Water hazard 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.

· **Department issuing MSDS:** *Industrial Safety Department.*

· **Contact:** *Dr. Thomas Wieland*

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LD50: Lethal dose, 50 percent

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