Printing date 10/11/2023

Anspruch verb

Reviewed on 10/11/2023

1 Identification

· Product identifier

• Trade name: <u>WAKOL K 410 Wood Flooring Adhesive with VOC Control</u> • Application of the substance / the mixture Adhesives

· Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Loba-Wakol, LLC 2732 Hwy 74 West Wadesboro, NC 28170, USA info@loba-wakol.com +1 704 527 5919

· Information department: Product safety department.

• Emergency telephone number: Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 98229: (USA domestic) 1 800 535 5053 or International (001) 352 323 3500

2 Hazard(s) identification

Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor.



Eye Irritation 2A H319 Causes serious eye irritation.

· Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



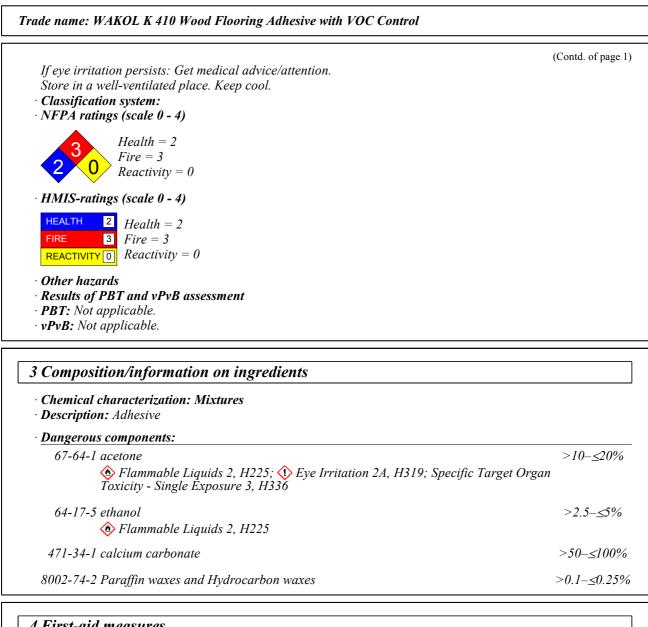
Signal word Danger
Hazard statements
Highly flammable liquid and vapor. Causes serious eye irritation.
Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.
Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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4 First-aid measures

• Description of first aid measures

• After inhalation: Supply fresh air.

• After skin contact: Clean with water and soap. If possible, also wash with polyethylene glycol 400.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

• *After swallowing:* Do not induce vomiting; immediately call for medical help.

· Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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5 Fire-fighting measures

· Extinguishing media

- Suitable extinguishing agents:
- *CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.*
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Keep away from ignition sources Wear protective equipment. Keep unprotected persons away. · Environmental precautions: Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. **PAC-1**: 471-34-1 calcium carbonate: 1,800 ppm 67-64-1 acetone: 200 ppm 64-17-5 ethanol: 1,800 ppm · PAC-2: 471-34-1 calcium carbonate: 3300* ppm 67-64-1 acetone: 3200* ppm 64-17-5 ethanol: 3300* ppm · PAC-3: 471-34-1 calcium carbonate: 15000* ppm 67-64-1 acetone: 5700* ppm 64-17-5 ethanol: 15000* ppm



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7 Handling and storage	7	Hand	ling	and	storage	
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- Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · 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.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

67-64-1 acetone

PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 590 mg/m³, 250 ppm
TLV (USA)	Short-term value: 1187 mg/m³, 500 ppm
	Long-term value: 594 mg/m³, 250 ppm
	BEI

IOELV (European Union) Long-term value: 1210 mg/m³, 500 ppm

64-17-5 ethanol

PEL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
REL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m³, 1000 ppm
STEL (European Unior	a) Short-term value: 900 mg/m³, 300 ppm
TWA (European Union)) Long-term value: 600 mg/m³, 200 ppm

· Ingredients with biological limit values:

67-64-1 acetone

BEI (USA) 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

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Trade name: WAKOL K 410 Wood Flooring Adhesive with VOC Control (Contd. of page 4) • Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: • General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Wash hands before breaks and at the end of work. • Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation. If the occupational exposure limit is exceeded. • Recommended filter device for short term use: Combination filter A-P2 · Protection of hands: Protective gloves Preventive skin protection by use of skin-protecting agents is recommended. · Material of gloves Butyl rubber, BR *Recommended thickness of the material:* ≥ 0.7 *mm* 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection: Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and of General Information	chemical properties	
· Appearance:		
Form:	Pasty	
Color:	White	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	56 °C (132.8 °F)	
· Flash point:	-18 °C (-0.4 °F)	

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Trade name: WAKOL K 410 Wood Flooring Adhesive with VOC Control

	(Contd. of page 5)
· Flammability (solid, gaseous):	Not applicable.
· Auto igniting:	>450 °C (>842 °F)
• Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits: Lower: Upper:	2.5 Vol % 13 Vol %
· Vapor pressure at 20 °C (68 °F):	247 hPa (185.3 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	1.5 g/cm³ (12.518 lbs/gal) (EN ISO 2811-1) Not determined. Not determined. Not determined.
• Solubility in / Miscibility with Water:	Partly miscible.
· Partition coefficient (n-octanol/wate	r): Not determined.
 Viscosity: Dynamic at 20 °C (68 °F): Kinematic: Organic solvents: 	85,000 mPas (ISO 2555) Not determined. 18.5 %
VOC content:	18.5 %
Solids content:	81.5 % (DIN EN 827.8.2)
• Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

• *LD/LC50* values that are relevant for classification:

67-64-1 acetone

Oral LD50 5,800 mg/kg (rat) (OECD RL 401)

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Dermal LD50 >15,800 mg/kg (rat) Inhalative LC50/4h 76 mg/l (rat)

64-17-5 ethanol

OralLD50>5,000 mg/kg (rat) (OECD RL 401)DermalLD50>10,000 mg/kg (rabbit) (OECD RL 402)Inhalative LC50/4h >1,800 mg/l (rat) (OECD RL 401)• Primary irritant effect:

• on the eye: Based on available data, the classification criteria are not met.

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.

- · Carcinogenic categories
- · <u>IARC</u> (International Agency for Research on Cancer)

9003-20-7 polyvinyl acetate, homopolymer: 3

• <u>NTP (National Toxicology Program)</u> 64-17-5 ethanol: NIEHS 1988

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

8	<u> </u>	
· Toxicity		
• Aquatic tox	cicity:	
67-64-1 ac	etone	
NOEC/16h	1,700 mg/l (Pseudomonas putida)	
NOEC/48h	4,740 mg/l (algae)	
LC50/96h	11,300 mg/l (Leuciscus idus) (DIN 38412 T.15)	
	5,540 mg/l (Oncorhynchus mykiss)	
	8,300 mg/l (Lepomis macrochirus)	
LC50/48h	12,600 mg/l (Daphnia magna)	
	11,300 mg/l (Leuciscus idus)	
EC5/16h	1,700 mg/l (Pseudomonas putida)	
EC5/72h	28 mg/l (Entosiphon sulcatum)	
EC5/8d	530 mg/l (Microcystis aerruginosa)	
EC50/18h	12,600–12,700 mg/l (Daphnia magna)	
EC50/48h	6,100 mg/l (Daphnia magna)	
EC50/96h	8,300 mg/l (Lepomis macrochirus)	
64-17-5 eth	nanol	
LC50/96h	1,100 mg/l (Alburnus alburnus)	
LC50/48h	8,150 mg/l (Leuciscus idus)	
EC5/72h	>1,000 mg/l (Pseudomonas putida)	
EC50/48h	>9,000 mg/l (Daphnia magna)	
IC50/72h	>100 mg/l (Scenedesmus subspicatus)	
		(Contd on page 8)

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- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · *Bioaccumulative potential* No further relevant information available.
- · *Mobility in soil* No further relevant information available.
- Additional ecological information:
- 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.

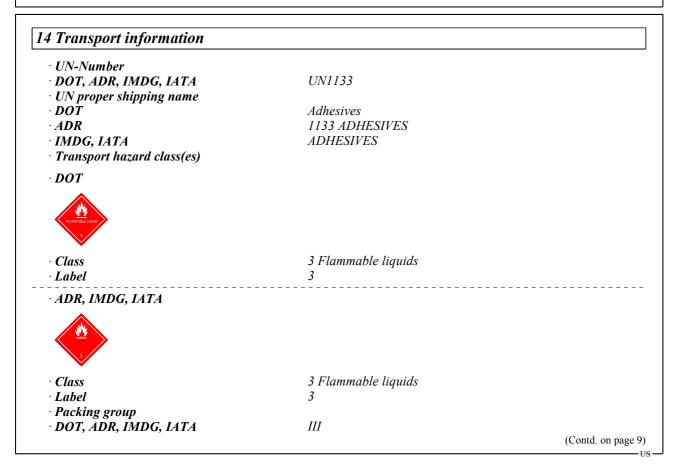
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

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



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	(Contd. of page
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code)	
EMS Number:	F-E,S-D
Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
ADR	
Excepted quantities (EQ)	Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 50 ml Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Regulatory information	UN 1133 ADHESIVES, 3, III
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Printing date 10/11/2023 Trade name: WAKOL K 410 Wood Flooring Adhesive with VOC Control (Contd. of page 9) 64-17-5 ethanol 8002-74-2 Paraffin waxes and Hydrocarbon waxes · New Jersey Special Hazardous Substance List: 67-64-1 acetone: F3 64-17-5 ethanol: CA, MU, TE, F3 · Pennsylvania Right-to-Know List: 67-64-1 acetone 64-17-5 ethanol 8002-74-2 Paraffin waxes and Hydrocarbon waxes · Pennsylvania Special Hazardous Substance List: 67-64-1 acetone: E · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. · Precautionary statements 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. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Keep cool. · National regulations: · VOC: VOC (EU) 272.0 g/l *VOC (USA):* 57.0 g/l / 0.48 lb/gal · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 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. (Contd. on page 11)



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(Contd. of page 10) · Relevant phrases H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. · Contact: · Date of preparation / last revision 10/11/2023 • Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

