

1. IDENTIFICATION OF THE PREPARATION AND COMPANY.

Product Name and Code : AQUA Covering Lacquer
A37200

NAME AND FULL ADDRESS OF COMPANY:

Heinrich König & Co.
An der Rosenhelle 5
61138 Niederdorfelden

EMERGENCY-CALL OF COMPANY : 49 / 6101 / 53 60 50 (R & D)

Telephone-number (in general) : 49 / 6101 / 53 60 - 0
Telefax : 49 / 6101 / 53 60 11

2. COMPOSITION/INFORMATION ON INGREDIENTS.

Substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Cas-No.	Names	Conc.	Symb. R-phrases
64-17-5	ethanol	16.5	
115-10-6	dimethyl ether	45.0	

Contents of water: 27 %
(See full text of R phrases under chapter 16)

3. HAZARDS IDENTIFICATION OF THE PREPARATION.

Description of hazard:

F+ : EXTREMELY FLAMMABLE

Possible hazards for man and environment:

n.a.

4. FIRST AID MEASURES.

General :

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation :

Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

Eye contact :

Rinse continuously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.

Skin contact :

Remove contaminated clothing. Wash skin thoroughly with soap and water or use approved skin-cleaner. Do NOT use solvents or thinner.

Ingestion :

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES.

Extinguishing media :

Recommended is an alcohol-resistant foam, carbon dioxide, dry-powder fire-extinguisher, water-fog

Unsuited media :

Water-jet

Danger in case of accident:

Fire will produce dense black smoke. Exposure to decomposing products may cause danger to health. Appropriate filter-masks or even heavy-duty breathing-apparatus may be required.

Cool closed containers exposed to fire with water. If possible, remove from dangerous area.

Do not allow run-off from water (caused by fire-fighting) to enter drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES.

Exclude sources of ignition and ventilate the area. Avoid breathing vapors. Refer to protective measures listed in sections 7 and 8. Collect spillage with non-combustible absorbent materials, as sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

Do not allow to enter drains or watercourses.

Clean preferably with a detergent; avoid use of solvents.

If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

7. HANDLING AND STORAGE.

Handling.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits.

Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Operators should wear anti-static footwear and clothing and floors should be of the conducting type.

Isolate from sources of heat, sparks and open flame.

No sparking tools should be used.

Avoid skin and eye contact. Avoid inhalation of vapor and spray mist.

Smoking, eating and drinking should be prohibited in application area.

For personal protection see Section 8.

Comply with the health and safety-at-work laws.

Storage.

Attention!

Follow the instruction of national regulations, concerning the storage for aerosol-cans!

Refer to regulations for liquefied gases!

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight.

Keep away from sources of ignition.

No smoking. Prevent unauthorized access.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

Engineering Measures.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapor below the OEL, suitable respiratory protection must be worn.

Exposure Limits.

Occupational exposure limit for :

CAS-No.	Names	STEL mg/m3	LTEL mg/m3
64-17-5	ethanol		1000.000 ppm
115-10-6	dimethyl ether		1000.000 ppm

Personal Protection.

Respiratory protection:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection:

For prolonged or repeated contact, use suited gloves (EN 274).

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection:

Use safety eyewear designed to protect against splash of liquids.

Skin protection:

Personnel should wear anti-static clothes made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Form : liquid

Color: typical

Odor : typical

	Value	Unit	Method
Flashpoint :	1	°C	closed cup
Viscosity : at 20 °C	40 s 4 mm	sec	DIN 53211
Spec. gravity : at 20 °C	0.79	g/cm ³	
Lower expl. Limit :	3.1	Vol%	
Upper expl. Limit :	18.6	Vol%	
Solubility in water :	not soluble		
Melting Point :		°C	
Boiling Point :	25	°C	(theor.value)
Percentage of VOC :	91.	%	
Vapor Pressure : at 20 °C	200	mbar	(theor.value)
pH-Value :	-		
Point of ignition :	273	°C	(theor.value)
Amount of solids :	8.51	%	
Volume of solids :	7.90	l/100 kg	

10. STABILITY AND REACTIVITY.

Stable under recommended storage and handling conditions. (See section 7).
 When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.
 Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. NONE OF THE UPPER DESCRIBED DECOMPOSED PRODUCTS WILL OCCUR UNDER NORMAL CONDITIONS AND PROPER USE!

11. TOXICOLOGICAL INFORMATION.

There are no data available on the preparation itself.

Exposure to component solvents vapors concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nerve-system.

Symptoms and signs include headache; dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION.

There are no data available on the preparation itself.

The product should not be allowed to enter drains or watercourses.

13. DISPOSAL CONSIDERATIONS.

Do not allow into drains or watercourses.

Empty containers are to be deposited according to the official rules.

14. TRANSPORT INFORMATION.

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

ADR / RID - classification

Name : 1950 AEROSOLS, flammable

Class : 2

Item : 5 F

Packaging group : ---

IMDG - Classification for Dangerous goods

Proper shipping Name: 1950 AEROSOLS, flammable, n.o.s.

IMDG-classification : 2 UN Nr. : 1950 Page: 2102

EmS : 2-13 MFAG : 620

Packaging group : --- (Dangerous goods in limited quantities)

Marine pollutant : n.a.

Airfreight - Classification for Dangerous goods

Proper shipping name: 1950 AEROSOLS, flammable, n.o.s

(Each not exceeding 1 L capacity)

IATA-classification : 2.1 UN-Nr. : 1950

Packaging group : II (203) / --- (Y 203)

15. REGULATORY INFORMATION.

The requirements of the Classification Packaging and Labeling of Dangerous Substances Regulations.

The product has to be labeled as follows:

F+ extremely flammable

Contains:

Dimethylether

R-phrases:

n.a.

S-phrases:

-Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50° C.

-Do not pierce or burn, even after use.

-Do not spray on a naked flame or any incandescent material.

-Keep away from sources of ignition - NO SMOKING.

-KEEP OUT OF REACH OF CHILDREN.

Other phrases:

n.a.

16. FURTHER INFORMATION

Full text of R phrases appearing in section 2 :
n.a.

The information contained in this MSDS is based on the present state of our knowledge, on current EEC and national laws and we believe it is correct as of its date. However, because the material may be used under conditions over which we have no control or in ways, we cannot anticipate, we give no warranty, expressed or implied, as to the accuracy of the information, and assume no responsibility for any damage to person, property or business, arising from misuse.

The product is not to be used for other purposes as those specified under 1 without first obtaining handling-instructions!

It is always the responsibility of the user to take all necessary steps in order to fulfill the demand of security matters laid down in national rules and legislation. The information in this MSDS is meant a description of the safety-requirements for our product; it is not to be considered a guarantee of the products' properties.

The information in this Material Safety Data Sheet is required pursuant to Dangerous Substances Regulations 26.10.1993.
