

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking**1.1 Product identifier:****Identification as on the label/Trade name:** Varnish and Paint Stripper**Product number:** KC-10.10.050.44, KC-10.10.050.45**EAN:** 8682729303475, 8682729303482**1.2 Relevant identification uses of the substance and uses advised against:****Identified uses:** A product used to remove paints, varnishes, glazes, polyurethane coatings, etc. from wood, metal, concrete, stone and plaster. Suitable for smooth and rough surfaces. Not suitable for plastic, rubber, vinyl, plexiglass and similar materials.**Uses advised against:** No other uses are advised.**1.3 Details of the Supplier of the Safety Data Sheet:**KOCHMAIER
Minervastr. 36
74613 Öhringen
+49-170-290-6038**1.4 Emergency telephone numbers:**24-hour Emergency Contact:
+49-170-290-6038**Section 2: Hazards Identification****2.1 Classification of the substance or mixture:****2.1.1 The mixture is classified according to:** Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008**Hazard classes/Hazard categories:**Skin corrosion (Category 1), H314
Serious eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3),
Respiratory system, H335
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 2), H411**2.1.2 Additional information:**

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements:**Hazard pictogram(s):** Labelling according Regulation (EC) No 1272/2008**Signal word:** Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing mist or vapors.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard: none**Reduced Labeling (<= 125 ml)****Signal word:** Danger**Hazard statements:**

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard: none**2.3 Other hazards:**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Lachrymator.

Section 3: Composition/Information on Ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Formula : H5NO

Molecular weight : 35,05 g/mol

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	SCLs, M-Factors, Acute Toxicity Estimates (ATE)	Classification EC1272/2008
	EC-No.			
ammonia solution	1336-21-6	>= 30 - < 35 %	-	Skin Corr. 1B; Eye Dam. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 2; H314, H318, H335, H400, H411 Concentration limits: >= 5 %: STOT SE 3, H335; M-Factor - Aquatic Acute: 10
	215-647-6			

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: First-Aid Measures

4.1 Description of first aid measures:

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician. In case of skin contact

In case of skin contact:

Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed:

No data available

Section 5: Fire-Fighting Measures

5.1 Extinguisher media:

Suitable extinguisher media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: For this substance no limitations of extinguishing agents are given.

5.2 Special hazards arising from the mixture:

Carbon oxides

Nitrogen oxides (NO_x)

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Recommendations for firefighting personnel:

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency personnel: For personal protection see section 8.

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb[®] OH⁻, Merck Art. No. 101596). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Advice on safe handling

Avoid contact with skin and eyes. Always open containers slowly to allow any excess pressure to vent.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including incompatibilities:

Storage conditions

Tightly closed.

Recommended storage temperature see product label.

Storage class

Recommended storage temperature

2 - 8 °C

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameters:

Occupational exposure limits: Ingredients with workplace control parameters.

8.2 Exposure controls:

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Splash contact

Full contact

Material: butyl-rubber

Minimum layer thickness: 0,3 mm

Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 240 min

Material tested: Dermatril[®] (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

protective clothing

Respiratory protection

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties:**

Physical state: Liquid

Colour: Colorless

Odour and odour threshold: No data available.

pH (concentration): 11,7 at 20 °C

Melting point/range (°C): -60 °C

Boiling point/range (°C): 38 - 100 °C at 1.013 hPa

Flash point (°C): Not applicable

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower flammability/explosive limits: Upper explosion limit: 27 %(V)
Lower explosion limit: 16 %(V)

Vapour pressure: 153 hPa at 20 °C

Vapour density: 0,9 g/cm³ at 25 °C - lit.

Relative density (20 °C): No data available.

Water solubility: at 20 °C soluble

Solubility in other solvents: No data available.

n-Octanol/Water partition coefficient: No data available.

Auto-ignition temperature: Not applicable

Decomposition temperature: Not applicable

Viscosity, dynamic (mPa.s): Viscosity, kinematic: No data available
Viscosity, dynamic: No data available

9.2 Other data:

9.2.1 Additional information:

9.2.2 Other safety characteristics:

Relative vapor density : 1,21 - (Air = 1.0)

Section 10: Stability and Reactivity

10.1 Reactivity: No data available

10.2 Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions:

Violent reactions possible with:
The generally known reaction partners of water.

10.4 Conditions to avoid: no information available

10.5 Incompatible materials: Copper, Iron, Zinc.

10.6 Hazardous decomposition products: In the event of fire: see section 5.

Section 11: Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:

Oral: No data available

Inhalation: No data available

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of
respiratory tract

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation:

Remarks: Mixture causes serious eye damage.

Risk of blindness!

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

STOT-single exposure: Mixture may cause respiratory irritation

STOT-repeated exposure: No data available

Aspiration hazard: No data available

11.2 Information regarding other hazard classes which relates to endocrine disrupting properties:**Endocrine disrupting properties:****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice

Components**ammonia solution****Acute toxicity**

Oral: No data available

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Dermal: No data available

Skin corrosion/irritation

Remarks: Causes skin burns.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Serious eye damage/eye irritation

Remarks: Causes serious eye damage.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Section 12: Ecological Information

12.1 Toxicity:

Mixture: No data available

12.2 Bioaccumulative potential: No data available.

12.3 Mobility in soil: No data available.

12.4 Results of PBT& vPvB assessment: No PBT or vPvB substances present in concentrations of $\geq 0.1\%$

12.5 Endocrine disrupting properties: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 Other adverse effects:

Product:

Assessment :

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

Components

ammonia solution

Toxicity to fish

flow-through test LC50 - Pimephales promelas (fathead minnow) - 0,068 mg/l - 96 h

Remarks: (ECHA)

The value is given in analogy to the following substances:
ammonium sulphate

Toxicity to daphnia

and other aquatic invertebrates

static test LC50 - Daphnia magna (Water flea) - 101 mg/l – 48 h

Remarks: (ECHA) anhydrous

Toxicity to fish(Chronic toxicity)

flow-through test NOEC - Ictalurus punctatus - 0,048 mg/l – 31d
(OECD Test Guideline 215)

Remarks: anhydrous

Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)

flow-through test LC50 - Daphnia magna (Water flea) - 4,07 mg/l - 96 h

(US-EPA)

Remarks: The value is given in analogy to the following substances:

The value is given in analogy to the following substances:
ammonium chloride

flow-through test NOEC - Daphnia magna (Water flea) - 0,79 mg/l - 96 h

(US-EPA)

Remarks: The value is given in analogy to the following substances:

The value is given in analogy to the following substances:
ammonium chloride

Section 13: Disposal Considerations**13.1 Waste treatment methods:** No data available**Section 14: Transport Information****14.1 UN number:**

ADR/RID: 2672

IMDG: 2672

IATA: 2672

14.2 UN proper shipping name:

ADR/RID: AMMONIA SOLUTION

IMDG: AMMONIA SOLUTION

IATA: Ammonia solutio

14.3 Transport hazard class:

ADR/RID: 8

IMDG: 8

IATA: 8

14.4 Packing group:

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards:

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

14.6 Special precautions for user:

Tunnel restriction code : (E)

Further information : No data available

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.**15.1 Chemical Safety Assessment carried out:**

No chemical safety assessment has been carried out for the mixture. The Safety Data Sheet incorporates the relevant information on the components of the mixture and, where possible, includes related exposure scenarios.

Section 16: Other Information**Indication of changes:** First version.**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety Data Sheet (SDS) for Varnish and Paint Stripper

Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS – Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI – Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Main bibliographical sources:

The results of toxicological studies or their suppliers.

ECHA website, GESTIS website (international exposure limit values), ACGIH (TLV and Bet).

Notice to readers:

The information detailed here is based on our knowledge up to the date indicated above. Refers exclusively to the product indicated and does not constitute a guarantee of particular qualities. The user must ensure the suitability and accuracy of said information in relation to the specific use to be made of the product.

List of abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists

ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road

ALARA As Low As Is Reasonably Achievable

AMU Atomic Mass Unit

ANSI American National Standards Institute

CAM Continuous Air Monitor

CAS Chemical Abstracts Service (division of the American Chemical Society)

CEN European Committee for Standardization

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CLP Classification, Labelling and Packaging (European Union)

CPR Controlled Products Regulations (Canada)

CWA Clean Water Act (USA)

DAC Derived Air Concentration (USA)

DOT United States Department of Transportation (USA)

DSL Domestic Substances List (Canada)

EC50 Half Maximal Effective Concentration

EINECS European Inventory of Existing Commercial Chemical Substances

EHS Environmentally Hazardous Substance

ELINCS European List of Notified Chemical Substances

EMS Emergency Response Procedures for Ships Carrying Dangerous Goods

EPA Environmental Protection Agency (USA)

EPCRA Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986

GHS Globally Harmonized System

HMIS Hazardous Materials Identification System (USA)

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Containers

ICAO International Civil Aviation Organization

IDLH Immediately Dangerous to Life or Health

IMDG International Maritime Code for Dangerous Good

LC50 Lethal concentration, 50 percent

LD50 Lethal dose, 50 percent

LDLO Lethal Dose Low

LOEC Lowest-Observed-Effective Concentration

MARPOL International Convention for the Prevention of Pollution from Ships
MSHA Mine Safety and Health Administration (USA)
NCRP National Council on Radiation Protection & Measurements (USA)
NDSL Non-Domestic Substances List (Canada)
NFPA National Fire Protection Association (USA)
NIOSH National Institute for Occupational Safety and Health (USA)
NOEC No Observed Effect Concentration
N.O.S. Not Otherwise Specified
NRC Nuclear Regulatory Commission (USA)
NTP National Toxicology Program (USA)
OSHA Occupational Safety and Health Administration (USA)
PBT Persistent Bioaccumulative and Toxic Chemical
PEL Permissible Exposure Limit
PIH Poisonous by Inhalation Hazard
RCRA Resource Conservation and Recovery Act (USA)
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID Regulations Concerning the International Transport of Dangerous Goods by Rail
RTECS Registry of Toxic Effects of Chemical Substances
SARA Superfund Amendments and Reauthorization Act (USA)
TDG Transportation of Dangerous Goods (Canada)
TIH Toxic by Inhalation Hazard
TLV Threshold Limit Value
TPQ Threshold Planning Quantity
TSCA Toxic Substances Control Act
TWA Time Weighted Average
UN United Nations (Number)
VOC Volatile Organic Compound
vPvB Very Persistent Very Bioaccumulative Chemical
WHMIS Workplace Hazardous Materials Information System