

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)



Wir machen
Chemie nutzbar

Trade name : Hakupur 50-538-1 (00013505381)
universal cleaning agent

Revision date : 05.02.2013

Version (Revision) : 9.0.0 (8.0.0)

Date of print : 06.02.2013

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Hakupur 50-538-1
universal cleaning agent

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Washing and cleaning products (including solvent based products)

1.3 Details of the supplier of the safety data sheet

Supplier : Chemische Werke Kluthe GmbH
Street : Mittelgewannweg 4-8
Postal code/city : D 69123 Heidelberg-Wieblingen
Telephone : +496221/5301-0
Telefax : +496221/5301-176
Information contact : sds.hd@kluthe.com

1.4 Emergency Telephone Number

+496221/5301-0 (7.30 - 16.00)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Flammable.

R 10

Classification procedure

Calculation method. Harmonised (legal) classification.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Flame (GHS02)

Signal word

Warning

Hazard Statements

H226 Flammable liquid and vapour.

Precautionary statements

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P303/361/353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370/378	In case of fire: Use foam (alcohol resistant), carbon dioxide, dry powder or water spray for extinction.
P403/235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container according to local regulations

2.3 Other hazards

None

3. Composition/information on ingredients

WATER, ALCOHOLS, ADDITIVES

3.2 Mixtures

Hazardous ingredients

ETHANOL ; REACH registration No. : 01-2119457610-43 ; EC No : 200-578-6; CAS No. : 64-17-5

Weight fraction : $\geq 10 - < 25$ %

Classification 67/548/EEC : F ; R11

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

4. First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Do not induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect).

4.2 Most important symptoms and effects, both acute and delayed

Dizziness. Headache. Impairment of vision. Nausea. Vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

None

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5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam. Carbon dioxide (CO₂). Extinguishing powder. Water spray

Unsuitable extinguishing media

High power water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂).

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely. Co-ordinate fire-fighting measures to the fire surroundings.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

6.4 Reference to other sections

None

7. Handling and storage



7.1 Precautions for safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Only use the material in places where open light, fire and other flammable sources can be kept away.

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists
Take precautionary measures against static discharges.

Fire prevent measures

Keep away from sources of ignition - No smoking. Usual measures for fire prevention. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically

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equipped (spark-free) tools. Wear anti-static footwear and clothing. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

Vapours/aerosols should be exhausted directly at the point of origin. Use only in well-ventilated areas.

Environmental precautions

Shafts and sewers must be protected from entry of the product.

7.2 Conditions for safe storage, including any incompatibilities

Hints on storage assembly

Storage class : 3

7.3 Specific end use(s)

None

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 500 ppm / 960 mg/m³

Peak limitation : 2(II)

Remark : Y

Version : 02.07.2009

8.2 Exposure controls



Personal protective equipment

Eye / face protection

Eye glasses with side protection

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : Butyl caoutchouc (butyl rubber)

Breakthrough time (maximum wearing time) : >= 480 min

Thickness of the glove material : 0,5 mm

Recommended glove articles : DIN EN 374

Additional hand protection measures : Check leak tightness / impermeability prior to use. Do not wear gloves near rotary machines and tools. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Remark : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

lab coat Overall.

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Suitable protective clothing : For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes. Only wear fitting, comfortable and clean protective clothing.

Required properties : antistatic. flame-resistant heat-resistant

Recommended material : Natural fibres (e.g. cotton) heat-resistant synthetic fibres

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter : A/P2

General health and safety measures

Wash hands before breaks and after work. Apply skin care products after work.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

Safety relevant basis data

Boiling temperature / boiling range (1013 hPa)		No data available	
Flash point :		38,0 - 42,0 °C	DIN 51755
Ignition temperature :		none	
Lower explosion limit :		none	
Upper explosion limit :		none	
Density :	(20 °C)	ca. 0,960	g/cm ³
Water solubility :	(20 °C)	miscible	
pH value :	(20 °C / conc.)	6,7 - 8,7	
Maximum VOC content (EC) :	(20 °C)	25,0	Wt % gem. RL 1999/13/EG
Maximum VOC content (Decopaint):	(20 °C)	25,0	Wt % gem. RL 2004/42/EG

9.2 Other information

no more data available

10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

Formation of potentially explosive mixtures with: Air. possible

10.4 Conditions to avoid

Heat, sparks, flames and other ignition sources.

10.5 Incompatible materials

Alkali (lye), concentrated. Acid, concentrated. Oxidising agent, strong.

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10.6 Hazardous decomposition products

Carbon dioxide (CO₂). Carbon monoxide.

11. Toxicological information

11.1 Information on toxicological effects

Acute effects

Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. May cause respiratory irritation.

11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation / mixture itself.

11.3 Other adverse effects

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Has degreasing effect on the skin.

11.4 Additional information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC). Toxicological data are not available.

12. Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Further ecological information

None

13. Disposal considerations

Dispose according to legislation.

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes / waste designations according to EWC / AVV

Waste code product

Waste code (91/689/EEC) : 07 01 04*

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13.2 Additional information

None

14. Transport information

14.1 UN number

1170

14.2 UN proper shipping name

Land transport (ADR/RID)

ETHANOL, SOLUTION

Sea transport (IMDG)

ETHANOL, SOLUTION

Air transport (ICAO-TI / IATA-DGR)

ETHANOL, SOLUTION

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Special provisions : LQ 7 · E 1
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3
EmS-No : F-E / S-D
Special provisions : LQ 51 · E 1
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

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Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

No information available.

16. Other information

16.1 Indication of changes

03. Hazardous ingredients

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Relevant R-, H- and EUH-phrases (Number and full text)

H225 Highly flammable liquid and vapour.

10 Flammable.

11 Highly flammable.

16.5 Training advice

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
