

SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 (REACH), amended by 2015/830/EU

Product: Ethanol, solvent

Artikel-Nr.: 31150

Revision date: 18.12.2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product number: 31150
Product name: Ethanol, solvent

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

MLV GmgH	Telephone:	+49 (0) 3947 65600
Mitteldeutscher Lehrmittelvertrieb	Telefax:	+49 (0) 3947 65601
Stecklenberger Winkel 88	e-Mail:	info@mlvgmbh.de
D-06502 Thale	Website	www.mlvgmbh.de

1.4 Emergency telephone number

Gemeinsamen Gif tinfor mationszentrum (GGIZ)	Telephone:	+49 (0) 361-730730
Nordhäuser Straße 74	Telefax:	
D-99089 Erfurt	e-Mail:	
	Website:	www.ggiz-erfurt.de/

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225

Causes serious eye irritation. H319

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

F Highly flammable R11

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 (REACH), amended by 2015/830/EU

Product: Ethanol, solvent

Artikel-Nr.: 31150

Revision date: 18.12.2014

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

P243 Take precautionary measures against static discharge

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

P337+P235 If eye irritation persists: get medical advice/ attention

P501 Dispose of contents / container to an approved waste handling site.

Statements

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Ethyl alcohol

Formula : C₂H₆O

Molecular Weight : 46,07 g/mol

CAS-No. : 64-17-5

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

Ethyl methyl ketone

CAS-No. 78-93-3 Flam. Liq. 2; Eye Irrit. 2; STOT; concentration < 10 %

EC-No. 201-159-0 SE 3; H225, H319, H336,

Index-No. 606-002-00-3 EUH066

Denatoniumbenzoat: concentration < 2,5%

CAS-No 3734-33-6

EC-No 223-095-2 Acute Tox. 4, H302

Hazardous ingredients according to Directive 1999/45/EC

Component Classification Concentration

Ethyl methyl ketone

CAS-No. 78-93-3 F, Xi, R11 - R36 - R66 - R67; concentration < 10 %

EC-No. 201-159-0

Index-No. 606-002-00-3

Denatoniumbenzoat < 2,5%

CAS-No 3734-33-6

EC-No 223-095-2 Xn, R22

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 (REACH), amended by 2015/830/EU

Product: Ethanol, solvent

Artikel-Nr.: 31150

Revision date: 18.12.2014

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 (REACH), amended by 2015/830/EU

Product: Ethanol, solvent

Artikel-Nr.: 31150

Revision date: 18.12.2014

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

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

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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

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: 175 min

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

SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 (REACH), amended by 2015/830/EU

Product: Ethanol, solvent

Artikel-Nr.: 31150

Revision date: 18.12.2014

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 CE 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

impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	
Form:	liquid, clear
Colour:	colourless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available.
f) Initial boiling point/range	79 °C
g) Flash point	12-13 °C - closed cup
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	Upper explosion limit: 15 %(V) Lower explosion limit: 3,5 %(V)
k) Vapour pressure	59 hPa at 20,0 °C
l) Vapour density	no data available
m) Relative density	0,789-0,807 g/mL at 25 °C
n) Water solubility	completely soluble
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 (REACH), amended by 2015/830/EU

Product: Ethanol, solvent

Artikel-Nr.: 31150

Revision date: 18.12.2014

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Alkali metals, Ammonia, Oxidizing agents, Peroxides

10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 7.060 mg/kg

Remarks: Lungs, Thorax, or Respiration:Other changes. LC50 Inhalation - rat - 10 h - 20000 ppm

Skin corrosion/irritation

Skin - rabbit

Result: No skin irritation - 24 h

(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - rabbit

Result: Mild eye irritation - 24 h

(OECD Test Guideline 405)

Germ cell mutagenicity

no data available

Carcinogenicity

Carcinogenicity - mouse - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Reproductive toxicity - Human - female - Oral

Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects.

Effects on Newborn: Drug dependence.

SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 (REACH), amended by 2015/830/EU

Product: Ethanol, solvent

Artikel-Nr.: 31150

Revision date: 18.12.2014

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: Not available

Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence (Ethyl methyl ketone)

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 1170

IMDG: 1170

IATA: 1170

14.2 UN proper shipping name

ADR/RID: ETHANOL

IMDG: ETHANOL

IATA: Ethanol

