

Material Safety Data Sheet
According to CE 1907/2006/CE Regulation, Article I

Substance: Acid-Test-Kit

Status: 03.05.2017 Rev.-Nr. 04

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: 13400 / Acid-Test-Kit / 9881446

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

Field of application: SUO Miscellaneous. Quick tester for acidiferous mineral oils.

Application of the substance / the mixture: PC21 Laboratory chemicals

Uses advised against: There is no information on uses that is not recommended.

1.3 Details of the supplier of the safety data sheet

REFCO Manufacturing Ltd. Industriestrasse 11 | 6285 Hitzkirch Switzerland

Tel: +41 41 919 72 82 | Fax: +41 41 919 72 83

Mail: info@refco.ch

1.4 Emergency telephone number

Schweizerisches Toxikologisches Informationszentrum Zurich

Telephone number in urgent matters: 145 or +41 44 251 51 51

Not urgent matters: +41 44 251 66 66

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008

Flam Liq. 3 H226	Flammable liquid and vapor.
Acute Tox. 4 H312	Harmful in contact with skin.
Acute Tox. 4 H332	Harmful if inhaled.
Skin Irrit. 2 H315	Causes skin irritation.
Eye Irrit. 2 H319	May cause severe eye irritation.
STOT SE 3 H335	May cause respiratory irritation.
STOT RE 2 H373	Can cause damage to organs through prolonged exposure.
Asp. Tox. 1 H304	May be fatal if swallowed and penetrates into the respiratory tract.

2.2 Label elements

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



GHS02



GHS07



GHS08

Signal word: Danger

Hazard determining ingredients: XYLOL/XYLENE; CAS-No.: 1330-20-7

Hazard statements:

H226	Flammable liquid and vapour..
H312+H332	Toxic in contact with skin. Harmful if inhaled.
H315	Causes skin irritation
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.



Material Safety Data Sheet
According to CE 1907/2006/CE Regulation, Article I

Substance: Acid-Test-Kit

Status: 03.05.2017 Rev.-Nr. 04

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Avoid breathing vapours.
P302+P361+P352 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. Wash with plenty of water.
P301+310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: not applicable.

vPvB: not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of organic solvents with small amount of additions.

3.1 Compounds

3.2 Mixtures

Dangerous components:

XYLOL: Registration number (EG) : 01-2119488216-32; EG-No. : 215-535-7; CAS-Nr.: 1330-20-7

Portion: 40-90 %

Classification 1272/2008 (CLP): Flam. Liq. 3 ; H226 Asp.Tox. 1 ; H304 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

ETHANOL: Registration number (EG): 01-2119457610-43; EG-No.: 200-678-6; CAS-No.: 64-17-5

Portion: 10-60 %

Classification 1272/2008 (CLP): Flam. Liq. 2; H225 Fl. and vapor easily flammable

4. FIRST AID MEASURES

4.1 Description of first aid measures

General indication:

Remove any clothing soiled by the product and ensure adequate fresh air. Symptoms of poisoning may occur only after several hours. If medical advice is needed, keep package or package label at hand.

After inhalation:

When symptoms occur bring the person to fresh air and keep warm. If breathing is irregular consult immediately doctor and specify clearly the substance. If shortage of breath occurs, provide oxygen.

After skin contact:

When symptoms occur bring the person to fresh air and keep warm. If breathing is irregular consult immediately doctor and specify clearly the substance. If shortage of breath occurs, provide oxygen.

After eye contact:

Remove contact lenses if possible, keep eyelids open. Rinse eyes gently for several minutes with running water or with eyewash solution.

After swallowing:

Keep the patient calm. If swallowed, seek medical advice immediately and show packages or label.. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

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

Possible symptoms: headache, drowsiness, dizziness, and eye and skin irritation, coughing, nausea, diarrhea, unconsciousness. If swallowing or vomiting, danger of entering the lungs (aspiration, danger of breath/cardiac arrhythmia).

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

No further relevant information available.

Material Safety Data Sheet
According to CE 1907/2006/CE Regulation, Article I

Substance: Acid-Test-Kit

Status: 03.05.2017 Rev.-Nr. 04

5. FIREFIGHTING MEASURES

The mixture is used in small quantities for analytical purposes, so is the risk of fire quite low.

5.1 Extinguishing media

Suitable Extinguishing media: Alcohol resistant foam, CO₂, Powder or water-spray
For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

In a fire inhaling the decomposition products (CO – carbon monoxide und CO₂ – carbon dioxide) can cause a health hazard. Explosive mixtures with air are potentially possible.

5.3 Advice for fire-fighters

A self-contained breathing apparatus shall be available and, if necessary, used.

5.4 Additional information

Cool containers at risk with water spray jet. If fire fighting water is necessary it must be disposed of in accordance with the local regulations.

6. ACCIDENTAL RELEASE MEASURES

The mixture is always used only in small quantities. If spills, only small amounts can be released.

6.1 Personal precautions, protective equipment and emergency procedures

Keep ignition sources away. Wear protective gloves. Avoid skin and eye contact and exposure to vapours. Work in a fume hood or ensure adequate ventilation. Keep inexperienced and unprotected persons away.

6.2. Environmental precautions

Do not allow to enter sewers/surface waters/groundwater

6.3 Methods and material for containment and cleaning up

Soak up leaked material with inert non-flammable absorbent material (e.g. sand, earth, silica gel) and dispose the material collected according to local regulations in appropriate containers. Clean affected areas thoroughly with commercially available water-based cleaning agent.

6.4 Reference to other sections

Information to safe handling, see Sections 7.
Information to personal protective equipment, see Section 8.
Information to waste disposal, see Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use only in area provided with appropriate ventilation/exhaust ventilation. Wash hands after use. Keep away from food and drink.



Measures to prevent fire:

Keep ignition sources away – Do not smoke.

Measures to protect the environment:

Do not allow to enter sewers/surface waters/groundwater

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place away from heat and ignition sources in a well-ventilated place. Avoid direct sunlight. No smoking.
Recommended storage temperature: 15-25 °C

7.3 Specific end use(s)



Incompatible with strong oxidizing agents.

Material Safety Data Sheet

According to CE 1907/2006/CE Regulation, Article I

Substance: Acid-Test-Kit

Status: 03.05.2017 Rev.-Nr. 04

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
<p>8.1 Control parameters</p> <p>The product does not contain any relevant quantities of substances that need to be monitored. Otherwise, the limits of the main components: XYLOL ; CAS-Nr. : 1330-20-7 Spezifizierung: IOELV (Europäische Union): Kurzzeitwert: 442 mg/m³, 100 ml/m³ Langzeitwert: 221 mg/m³, 50 ml/m³ Kategorie : 2(II); Bemerkungen : H Versionsdatum : 02.07.2009 Biological monitoring Guidance Values (EH40) in urin: 650 mmol methyl hippuric acid /mol creatinine ETHANOL; CAS-Nr.: 64-17-5 Short-term exposure - systemic effects: inhalation: 1900 mg / m³ Long-term exposure - systemic effects: inhalation: 950 mg/m³ dermal: 343 mg/kg</p> <p>8.2 Exposure controls</p> <p>General protective and hygiene measures Avoid contact with eyes and prolonged contact with skin. When using do not eat, drink or smoke. Remove all contaminated clothing immediately. Ensure adequate room/work place ventilation. Do not inhale vapor.</p> <p>Individual protection measures, such as personal protective equipment:</p> <p>Eye/Face protection Safety glasses if splashing hazard.</p> <p>Protection of hands Use protective gloves resistant to chemicals, if contacting</p> <p>Respiratory protection In case of sufficient ventilation not necessary. In case of intensive or longer exposure wear suitable respiratory equipment.</p>	 
9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Information on basic physical and chemical properties	
<p>a) Appearance: fluid, light blue b) Odour: Hydrocarbon-solvent-like c) Odour threshold: not specified d) pH-Value: not used e) Melting point: not applicable f) Boiling point/boiling range: undetermined g) Flash point: 17-23 °C h) Vaporisation rate: undetermined i) Ignitability (solid, gaseous): not applicable j) upper/lower ignitability and explosion limits: undetermined/not applicable k) Vapour pressure: undetermined l) Vapour density: undetermined m) Density: 081-0,87 g/cm³ n) Water solubility: partly immiscible o) degree of dispersion: n-Octanol/Water: undetermined p) self-igniting: not applicable q) Decomposition temperature: undetermined r) Viscosity: undetermined s) explosion properties: not explosive t) oxidizing properties: not oxidizing</p> <p>9.2 Other information Shelf life: 3 years</p>	



Material Safety Data Sheet
According to CE 1907/2006/CE Regulation, Article I

Substance: Acid-Test-Kit

Status: 03.05.2017 Rev.-Nr. 04

10. STABILITY AND REACTIVITY

10.1 Reactivity

See section 10.5

10.2 Chemical stability

Air sensitive. Opened vials should not be left standing in the air.

10.3 Possibility of hazardous reactions

None if stored and handled correctly. Otherwise reactions with oxidizing agents and alkali metals.

10.4 Conditions to avoid

Sunlight, heat, flames and sparks

10.5 Incompatible materials

Alkali metals, alkaline earth metals, oxidizing agents, alkali metal oxides, anhydrides, peroxides, halogen compounds.

10.6 Hazardous decomposition products

At fire: s. Section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) Acute Toxicity:

No toxicological data available

Classification relevant LD/LC50-Values

Specification:

Xylol CAS-Nr. 1330-20-7:	Oral LD50 4300 mg/kg (rat) Dermal LD50 1700 mg/kg (rabbit) (TOXNET) Inhalation LC50/4 h 21,7 mg/l (rat) (GESTIS)
Ethanol CAS-Nr. 64-17-5:	Oral LD50 10470 mg/kg (rat) (OECD-401) Inhalation LC50/4 h 117-125 mg/l (rat) (OECD-403)

b) Irritation:

Skin: Risk of skin absorption. For prolonged or repeated skin, contact may irritate the skin and mucous membranes and due to the degreasing effect of the solvent may cause dermatitis (skin inflammation).

Eye: Irritant

After inhalation: Absorption, mucosal irritation, coughing, on breathing a lot lung edema may occur after latency period.

c) Etching: Not known

d) Sensitization: No sensitizing effects known.

To additional points:

f) Carcinogenicity

g) Mutagenicity

h) Reproduction toxicity:

The product is not classified as germ cell mutagenic, carcinogenic or toxic for reproduction (CMR properties).

Additional information:

This product is used in small quantities for analysis, so only the initial symptoms, that of the components at low exposures, could be relevant.

Further information: Product should be handled with the care usual when dealing with harmful chemicals.



Material Safety Data Sheet
According to CE 1907/2006/CE Regulation, Article I

Substance: Acid-Test-Kit

Status: 03.05.2017 Rev.-Nr. 04

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic life with long lasting effects.
Fish toxicity: LC50 26,7 mg/l/96 h (Pimephales promelas)
Daphnia toxicity: EC50 1 mg/l/48 h (Daphnia magna (large water flea))
Alga toxicity: IC50 2,2 mg/l/72 h (Pseudokirchneriella subcapitata)
(Based on the harmful ingredient xylene)

12.2 Persistence and degradability

Moderately biodegradable

12.3 Bio accumulative potential

Due to the distribution in n-octanol/water an accumulation in organisms is not expected (log POW \leq 4).

12.4 Mobility in soil

Floats on water and does not dissolve. (Based on the hazardous part xylene)
Note: Do not empty into waters, waste water or soil.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Advice on disposal:
The product should be disposed of as hazardous waste. Disposal according to official regulations.



Material Safety Data Sheet
According to CE 1907/2006/CE Regulation, Article I

Substance: Acid-Test-Kit

Status: 03.05.2017 Rev.-Nr. 04

14. TRANSPORT INFORMATION

All details related to the dangerous ingredient xylene

14.1 UN-Number

ADR /RID UN1993
IMDG UN1993
IATA UN1993

14.2 UN proper shipping name:

ADR 1993 Flammable liquid N.A.G. (Ethanol, Xylene)
IMDG 1993 Flammable liquid N.O.S. (Ethanol, Xylene)
IATA 1993 Flammable liquid N.O.S. (Ethanol, Xylene)

14.3 Transport hazard class(es)

ADR 3 Flammable liquids
IMDG 3 Flammable liquids
IATA 3 Flammable liquids

14.4 Packing Group

ADR, IMDG, IATA III

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for users

Warning: Flammable liquids
Kemler-Number: 33
EMS-Number: F-E,S-D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

The transport takes place only in appropriate packaging. (Ampules in Boxes). Not transported in bulk.

14.8 Specifications according to the UN-instructions

UN-No. 1993
Proper Transport Name: Oil-acid tester
Class: 3
Packaging Group: III
Label: Flammable Liquid 3

15. REGULATORY INFORMATIONS

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

Classification according to measure of operational safety: 3 highly flammable liquids
Water contaminating class: 2 National regulatory information: Marked in accordance with 44/2000I/XII.27.EüM Regulation (01.01.2001). Observe employment restrictions for child bearing mothers and nursing.

15.2 Chemical safety assessment

Chemical safety assessment has not been carried out.

16. OTHER INFORMATION

The information is based on the present level of our knowledge, however, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

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

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IATA: International Air Transport Association



Material Safety Data Sheet
According to CE 1907/2006/CE Regulation, Article I

Substance: Acid-Test-Kit

Status: 03.05.2017 Rev.-Nr. 04

GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: lethal concentration, 50 %
GHS Hazard statements of ingredients
H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H312 Harmful in contact with skin
H315 Causes skin irritation
H332 Harmful if inhaled

End of the document