

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**Sodium acetylde, ca 18% slurry in xylenes**

Stock number:

L09656

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

Identified use:

SU24 Scientific research and development

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG  
A Johnson Matthey Company  
Zeppelinstr. 7b  
76185 Karlsruhe / Germany  
Tel: +49 (0) 721 84007 280  
Fax: +49 (0) 721 84007 300  
Email: tech@alfa.com  
www.alfa.com

Informing department:

Product safety Tel + +049 (0) 7275 988687-0

**1.4 Emergency telephone number:**

Carechem 24: +44 (0) 1235 239 670 (Multi-language emergency number)

Poison Information Center Mainz

www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

Water-react. 2 H261 In contact with water releases flammable gases.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.



GHS07

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

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

C; Corrosive

R34: Causes burns.



Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.



F; Highly flammable

R10-14/15: Flammable. Reacts violently with water, liberating extremely flammable gases.

**Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Other hazards that do not result in classification**

No information known.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

Signal word

The product is classified and labelled according to the CLP regulation.

GHS02, GHS05, GHS07

Danger

Hazard-determining components of labelling:

Xylenes

Sodium acetylde

Hazard statements

H226 Flammable liquid and vapour.

H261 In contact with water releases flammable gases.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Precautionary statements

H314 Causes severe skin burns and eye damage.

P210

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

P231+P232

Handle under inert gas. Protect from moisture.

P303+P361+P353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338

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

P405

Store locked up.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH014 Reacts violently with water.

**2.3 Other hazards**

Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Dangerous components:**

CAS: 1330-20-7 EINECS: 202-422-2	Xylenes	☒ Xn R20/21; ☒ Xi R38 R10 ☒ Flam. Liq. 3, H226; ☒ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	82,0%
CAS: 1066-26-8	Sodium acetylde	☒ C R34; ☒ F R14/15 ☒ Water-react. 1, H260; ☒ Skin Corr. 1B, H314	18,0%

Additional information

None known.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General information

Instantly remove any clothing soiled by the product.

Trade name **Sodium acetylide, ca 18% slurry in xylenes**

<b>After inhalation</b>	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.	(Contd. of page 1)
<b>After skin contact</b>	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	
<b>After eye contact</b>	Seek immediate medical advice.	
<b>After swallowing</b>	Rinse opened eye for several minutes under running water. Then consult doctor.	
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	Seek medical treatment.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	No further relevant information available.	

**SECTION 5: Firefighting measures**

<b>5.1 Extinguishing media Suitable extinguishing agents For safety reasons unsuitable extinguishing agents</b>	In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
<b>5.2 Special hazards arising from the substance or mixture</b>	Water. Reacts violently with water If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Sodium oxide
<b>5.3 Advice for firefighters Protective equipment:</b>	Wear self-contained breathing apparatus. Wear full protective suit.

**SECTION 6: Accidental release measures**

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources
<b>6.2 Environmental precautions:</b>	Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.
<b>6.3 Methods and material for containment and cleaning up:</b>	Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
<b>Prevention of secondary hazards:</b>	Keep away from ignition sources.
<b>6.4 Reference to other sections</b>	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

<b>7.1 Precautions for safe handling</b>	Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
<b>Information about protection against explosions and fires:</b>	Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.
<b>7.2 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and containers: Information about storage in one common storage facility:</b>	No special requirements. Store away from air. Store away from water. Store away from strong bases.
<b>Further information about storage conditions:</b>	Store under dry inert gas. This product is moisture sensitive. This product is air sensitive. Protect from humidity and keep away from water. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.
<b>7.3 Specific end use(s)</b>	No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

<b>Additional information about design of technical systems:</b>	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------

**8.1 Control parameters****Components with critical values that require monitoring at the workplace:****1330-20-7 Xylenes (82,0%)**

AGW (Germany)	440 mg/m <sup>3</sup> , 100 ppm 2(II);DFG, EU, H
MAK (TRGS 900) (Germany)	440 mg/m <sup>3</sup> , 100 ppm H; DFG
PEL (USA)	435 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI

Trade name **Sodium acetylide, ca 18% slurry in xylenes**

(Contd. of page 2)

**Ingredients with biological limit values:****1330-20-7 Xylenes (82,0%)**

BGW (Germany)	1,5 mg/l B b Xylol
BEI (USA)	2 g/l U b Methylhippur-(Tolur-)Säure 1,5 g/g creatinine urine end of shift Methylhippuric acids

**Additional information:** No data**8.2 Exposure controls****Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Maintain an ergonomically appropriate working environment.

Use breathing protection with high concentrations.

Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Breathing equipment:****Protection of hands:****Material of gloves****Penetration time of glove material****Eye protection:****Body protection:**

Impervious gloves

Not determined

Tightly sealed safety glasses.

Full face protection

Protective work clothing.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Slurry
<b>Colour:</b>	Gray to pale brown
<b>Smell:</b>	Not determined
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not determined.**Change in condition**

<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	Not determined
<b>Sublimation temperature / start:</b>	Not determined

<b>Flash point:</b>	25 °C
<b>Inflammability (solid, gaseous)</b>	Not determined.
<b>Ignition temperature:</b>	465 °C
<b>Decomposition temperature:</b>	Not determined
<b>Self-inflammability:</b>	Product is not selfigniting.
<b>Critical values for explosion:</b>	
<b>Lower:</b>	1,0 Vol %
<b>Upper:</b>	7,0 Vol %
<b>Steam pressure at 20 °C:</b>	10 hPa
<b>Density at 20 °C</b>	0,865 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Reacts violently Contact with water releases flammable gases
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.

**Solvent content:**  
**Organic solvents:** 82,0 %**Solids content:** 18,0 %**9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity**Reacts violently with water.  
In contact with water releases flammable gases which may ignite spontaneously.  
Stable under recommended storage conditions.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

Contact with water releases flammable gases

Reacts violently with water

**10.5 Incompatible materials:**

Air

Bases

Water/moisture

**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Sodium oxide

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity:**Harmful if inhaled.  
Harmful in contact with skin.(Contd. on page 4)  
DE/E

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Revision: 14.08.2012

Printing date 02.07.2013

Trade name **Sodium acetylde, ca 18% slurry in xylenes**

(Contd. of page 3)

Danger by skin resorption.  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**LD/LC50 values that are relevant for classification:****1330-20-7 Xylenes**

Oral LD50 4300 mg/kg (rat)

**Skin irritation or corrosion:****Eye irritation or corrosion:****Sensitization:****Germ cell mutagenicity:****Carcinogenicity:****Reproductive toxicity:****Specific target organ system toxicity -****repeated exposure:****Specific target organ system toxicity - single****exposure:****Aspiration hazard:****Additional toxicological information:**

Causes severe skin burns.

Causes serious eye damage.

No sensitizing effect known.

No effects known.

EPA-I: Data are inadequate for an assessment of human carcinogenic potential.

IARC-3: Not classifiable as to carcinogenicity to humans.

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

No effects known.

No effects known.

No effects known.

No effects known.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****12.2 Persistence and degradability****12.3 Bioaccumulative potential****12.4 Mobility in soil****Additional ecological information:****General notes:**

No further relevant information available.

Do not allow product to reach ground water, water bodies or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

Water hazard class 2 (Self-assessment): hazardous for water.

Danger to drinking water if even small quantities leak into soil.

Avoid transfer into the environment.

**12.5 Results of PBT and vPvB assessment****PBT:****vPvB:****12.6 Other adverse effects**

Not applicable.

Not applicable.

No further relevant information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Consult state, local or national regulations for proper disposal.

**Uncleaned packagings:****Recommendation:**

Disposal must be made according to official regulations.

**SECTION 14: Transport information****UN-Number****ADR, IMDG, IATA**

UN3399

**14.2 UN proper shipping name****ADR****IMDG, IATA**3399 ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE (Sodium acetylde, XYLENES)  
ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE (Sodium acetylde, XYLENES)**14.3 Transport hazard class(es)****ADR****Class****Label****IMDG, IATA**

4.3 (WF1) Substances which, in contact with water, emit flammable gases.

4.3+3

**Class****Label**

4.3 Substances which, in contact with water, emit flammable gases.

4.3+3

**Packing group****ADR, IMDG, IATA**

II

**14.5 Environmental hazards:****Marine pollutant:**

No

**14.6 Special precautions for user****Kemler Number:**

Warning: Substances which, in contact with water, emit flammable gases.

323

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC****Code**

Not applicable.

**Transport/Additional information:****ADR****Excepted quantities (EQ):****Limited quantities (LQ)****Transport category****Tunnel restriction code**

E2

500 ml

0

D/E

(Contd. on page 5)  
DE/E

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Revision: 14.08.2012

Printing date 02.07.2013

Trade name **Sodium acetylde, ca 18% slurry in xylenes**

(Contd. of page 4)

UN "Model Regulation":

UN3399, ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE (Sodium acetylde, XYLENES), 4.3 (3), II

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Australian Inventory of Chemical Substances**

1330-20-7 | Xylenes

**Standard for the Uniform Scheduling of Drugs and Poisons**

1330-20-7 | Xylenes

S6

**National regulations****Information about limitation of use:**Employment restrictions concerning young persons must be observed.  
For use only by technically qualified individuals.**Classification according to VbF:**

A II

**Technical instructions (air):**

Class	Share in %
NK	82,0

**Water hazard class:**

Water hazard class 2 (Self-assessment): hazardous for water.

**Other regulations, limitations and prohibitive regulations****ELINCS (European List of Notified Chemical Substances)**

None of the ingredients is listed.

**Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

**REACH - Pre-registered substances**

1330-20-7 | Xylenes

**15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Relevant phrases**

H226 Flammable liquid and vapour.  
 H260 In contact with water releases flammable gases which may ignite spontaneously.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H332 Harmful if inhaled.  
 R10 Flammable.  
 R14/15 Reacts violently with water, liberating extremely flammable gases.  
 R20/21 Harmful by inhalation and in contact with skin.  
 R34 Causes burns.  
 R38 Irritating to skin.

**Department issuing data specification sheet:** Health, Safety and Environmental Department.**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent

DE/E