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Acetilen(otopljeni)		001.DI.TC



Nevarno



1

Product identifier {EN}
Trade name {EN} : Acetilen(otopljeni)
SDS Nr {EN} : 001.DI.TC
Chemical formula {EN} : C2H2
Use {EN} : Industrial and professional. Perform risk assessment prior to use. {EN}
Company identification {EN} : KISIKANA
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email: info@sol.it | http://www.sol.it/msds2/msds.asp
E-Mail address (competent person): {EN} : msds@sol.it
Emergency telephone number {EN} : +385 (0)44 534852

2

Hazard Class and Category Code
Regulation EC 1272/2008 (CLP) {EN}
• **Physical hazards {EN}** : Tűzveszélyes gázok - kategóriájú 1 - Veszély (H220)
Nyomás alatt lévő gázok - Oldott gáz - Veszély (H280)
Explosive with or without contact with air. (EUH006) {EN}

Classification EC 67/548 or EC 1999/45 {EN} : F+; R12
R5
R6

Labelling Regulation EC 1272/2008 (CLP) {EN}

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2

• Hazard pictograms {EN}



- Hazard pictograms code {EN} : GHS02 - GHS04
- Signal word {EN} : Nevarno
- Hazard statements {EN} : H220 : Extremely flammable gas. {EN}
H280 : Contains gas under pressure; may explode if heated. {EN}
- Supplemental hazard information {EN} : EUH006 : Explosive with or without contact with air. {EN}
- Precautionary statements {EN}
 - Prevention {EN} : P210 : Keep away from heat/sparks/open flames/hot surfaces. – No smoking. {EN}
 - Response {EN} : P381 : Eliminate all ignition sources if safe to do so. {EN}
P377 : Leaking gas fire: Do not extinguish, unless leak can be stopped safely. {EN}
 - Storage {EN} : P403 : Store in a well-ventilated place. {EN}

Other hazards {EN} : In high concentrations may cause asphyxiation. {EN}

3

Substance / Mixture {EN} : Substance. {EN}

Acetylene (dissolved)	:	100 %	74-86-2	200-816-9	601-015-00-0	NOTE 2	F+; R12 R5 R6 ----- Flam. Gas 1 (H220) Press. Gas (H280) Expl. (EUH006)
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Contains no other components or impurities which will influence the classification of the product. {EN}

Full text of R-phrases see chapter 16 {EN}

Full text of H-statements see chapter 16 {EN}

Note 1: {EN} Listed in Annex IV / V REACH, exempted from registration. {EN}

Note 2: {EN} Registration deadline not expired. {EN}

4

Indication of any immediate medical attention and special treatment needed {EN} : Obtain emergency medical attention. {EN}

- Inhalation {EN} : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. {EN}
In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. {EN}
Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if

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- breathing stopped. {EN}
- **Skin/eye contact {EN}** : Not expected to present a significant eye contact hazard under anticipated conditions of normal use. {EN}
- **Ingestion {EN}** : Ingestion is not considered a potential route of exposure. {EN}
- Most important symptoms and effects, both acute and delayed {EN}** : Asphyxiant in high concentrations. {EN}

5

- **Suitable extinguishing media {EN}** : All known extinguishants can be used. {EN}
- **Unsuitable extinguishing media {EN}**: None. {EN}

- **Specific hazards {EN}** : Exposure to fire may cause containers to rupture/explode. {EN}
- **Hazardous combustion products {EN}** : Incomplete combustion may form carbon monoxide. {EN}

- **Specific methods {EN}** : If possible, stop flow of product. {EN}
Move away from the container and cool with water from a protected position. {EN}
Continue water spray from protected position until container stays cool. {EN}
Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire. {EN}
- **Special protective equipment for fire fighters {EN}** : In confined space use self-contained breathing apparatus. {EN}

6

- Personal precautions, protective equipment and emergency procedures {EN}** : Evacuate unnecessary personnel. {EN} Ensure adequate air ventilation. {EN} Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. {EN}
Eliminate ignition sources. {EN}
- Environmental precautions {EN}** : Try to stop release. {EN}
- Methods and material for containment and cleaning up {EN}**: Ventilate area. {EN}

7

- Precautions for safe handling {EN}** : Purge air from system before introducing gas. {EN}
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. {EN}
Keep away from ignition sources (including static discharges). {EN}
Take precautionary measures against static discharge. {EN}

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Avoid contact with pure copper, mercury, silver and brass with greater than 70% copper. {EN}
 Suck back of water into the container must be prevented. {EN}
 Do not allow backfeed into the container. {EN}
 Refer to supplier's container handling instructions. {EN}
 Open valve slowly to avoid pressure shock. {EN}

Conditions for safe storage, including any incompatibilities {EN} : Segregate from oxidant gases and other oxidants in store. {EN}
 Keep container below 50°C in a well ventilated place. {EN}

Specific end use(s) {EN} : None. {EN}

8

Recommended monitoring procedures {EN} : Consider the risk of explosive atmospheres. {EN}

General {EN} : Ensure adequate ventilation. {EN}
 Wear suitable hand, body and head protection. Wear goggles with suitable filter lenses when use is cutting/welding. {EN}
 Do not smoke while handling product. {EN}

- Respiratory protection {EN} : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. {EN}

- Hand protection {EN} : Nositi zaštitne rukavice.

- Skin protection {EN} : Koristiti odgovarajuća sredstva za zaštitu kože.

- Eye protection {EN} : Even though no eye contact is expected under reasonable normal conditions of use, appropriate eye protection should be worn when handling this material. {EN}

9

Physical state at 20 °C {EN} : Dissolved gas. {EN}
Colour {EN} : Colourless gas. {EN}
Odour {EN} : Garlic like. {EN} Poor warning properties at low concentrations. {EN}
Molecular weight {EN} : 26
Melting point [°C] {EN} : -80.8
Boiling point [°C] {EN} : -84 (s)
Critical temperature [°C] {EN} : 35
Vapour pressure [20°C] {EN} : 44 bar
Relative density, gas (air=1) {EN} : 0.9

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Relative density, liquid (water=1) { EN } : Not applicable. {EN}
 Solubility in water [mg/l] {EN} : 1185
 Flammability range [vol% in air] {EN} : 2.4 83
 Auto-ignition temperature [°C] {EN} : 325

Other data {EN} : None. {EN}

10

Reactivity {EN} : May react violently with oxidants. {EN}
 Can form explosive mixture with air. {EN}

Chemical stability {EN} : May decompose violently at high temperature and/or pressure or in the presence of a catalyst. {EN}
 Forms explosive acetylides with copper, silver and mercury. {EN}
 Dissolved in a solvent supported in a porous mass. {EN}

Possibility of hazardous reactions { EN } : Stable under normal conditions. {EN}

Conditions to avoid {EN} : Keep away from heat/sparks/open flames/hot surfaces. – No smoking. {EN}

Incompatible materials {EN} : Air, Oxidisers. {EN}
 Do not use alloys containing more than 65% copper. {EN}

Hazardous decomposition products { EN } : Incomplete combustion may form carbon monoxide. {EN}

11

Acute toxicity {EN} : No known toxicological effects from this product. {EN}

Inhalation {EN} : No known toxicological effects from this product. {EN}

Dermal {EN} : No known toxicological effects from this product. {EN}

Ocular {EN} : No known toxicological effects from this product. {EN}

Ingestion {EN} : No known toxicological effects from this product. {EN}

Rat inhalation LC50 [ppm/4h] {EN} : No data available. {EN}

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Toxicity {EN} : No known ecological damage caused by this product. {EN}

Persistence and degradability {EN} : Not known. {EN}

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Bioaccumulative potential {EN} : Not known. {EN}
Mobility in soil {EN} : Not known. {EN}
Results of PBT and vPvB assessment {EN} : Not applicable. {EN}
Other adverse effects {EN}

13

General {EN} : Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor. {EN}
Do not discharge into any place where its accumulation could be dangerous. {EN}

Disposal method {EN} : Consult supplier for specific recommendations. {EN}

14

- UN number {EN} : 1001
- Labelling ADR, IMDG, IATA {EN}



ADR/RID {EN}
- H.I. nr {EN} : 239
- UN proper shipping name {EN} : ACETYLENE, DISSOLVED
- Transport hazard class(es) {EN} : 2
- ADR/RID Classification code {EN} : 4 4 F F
- Packing Instruction(s) - General : P200
- Tunnel Restriction : B/D Tank carriage: Passage forbidden through tunnels of category B, C, D and E;
Other carriage: Passage forbidden through tunnels of category D and E

IMO-IMDG code {EN}
- Proper shipping name {EN} : ACETYLENE, DISSOLVED
- Class {EN} : 2.1
- IMDG-Marine pollution {EN} : NO
- Emergency Schedule (EmS) - Fire : F-D
- Emergency Schedule (EmS) - Spillage : S-U

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ICAO/IATA {EN}

- **Proper shipping name {EN}** : ACETYLENE, DISSOLVED
- **Class {EN}** : 2.1
- **IATA-Passenger and Cargo Aircraft** : DO NOT LOAD IN PASSENGER AIRCRAFT.
- **Cargo Aircraft only** : Allowed.
- **Packing instruction** : 200

Avoid transport on vehicles where the load space is not separated from the driver's compartment. {EN}

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. {EN}

Before transporting product containers : {EN}

- Ensure that containers are firmly secured. {EN}
- Ensure cylinder valve is closed and not leaking. {EN}
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted. {EN}
- Ensure valve protection device (where provided) is correctly fitted. {EN}
- Ensure there is adequate ventilation. {EN}
- Compliance with applicable regulations. {EN}

15

- Restrictions {EN}** : None. {EN}
- Safety, health and environmental regulations/legislation specific for the substance or mixture {EN}** : None. {EN}
- Seveso regulation 96/82/EC** : Listed {EN}

16

Ensure all national/local regulations are observed. {EN}

Receptacle under pressure. {EN}

Ensure operators understand the flammability hazard. {EN}

The hazard of asphyxiation is often overlooked and must be stressed during operator training. {EN}

- List of full text of R-phrases in section 3. {EN}** :
- R5 : Zagrijavanje može uzrokovati eksploziju.
 - R6 : Eksplozivno u dodiru ili bez dodira sa zrakom.
 - R12: Vrlo lako zapaljivo.

List of full text of H-statements in section 3. {EN} :

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws. {EN}

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws. {EN}

- DISCLAIMER OF LIABILITY {EN}** :
- Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. {EN}
 - Details given in this document are believed to be correct at the time of going to press. {EN} Whilst proper care has been taken in the preparation of this document,

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no liability for injury or damage resulting from its use can be accepted. {EN}