

## SAFETY DATA SHEET

Prepared according to the European Commission Regulations (EU) No. 2015/830

**PRODUCT:** Disinfectant hand liquid according to WHO formula No. 1

**Date of filling:** 08 04 2020

**Last revision date:** -

**Version number:** 1

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# SAFETY DATA SHEET

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

### 1.1. PRODUCT IDENTIFIER

**Trade name:** Disinfectant hand liquid according to WHO formula No. 1

### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

**Relevant identified uses:** Used for hand disinfection.

**Uses advised against:** Not available.

### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Manufacturer/Supplier:**

UAB „KURANA“

Musos str. 19, Aukstikalniu village, LT-39103, Pasvalys Area Municipality, Lithuania

Tel.: +370 451 34500

Fax: +370 451 53280

**Electronic mail address of the person, responsible for the safety data sheet:**

E-mail: [info@kurana.lt](mailto:info@kurana.lt)

### 1.4. HELPDESK TELEPHONE NUMBER

Poison Control Centre (Austria)

Tel. No.: +43 1 406 4343

Antigif Centrum Centre Antipoisons (Belgium)

Tel. No.: +32 070 245 245

National Toxicology Center, Hospital for Active Medical Treatment and Emergency Medicine "N.I.Pirogov" (Bulgaria)

Tel. No. / fax.: +359 2 9154 233

Poison Control Centre (Croatia)

Tel. No.: +385 1 234 8342

Toxicological Information Centre (Czech Republic)

Tel. No.: +420 224 919 293 / +420 224 915 402

Poison Control Hotline (Denmark)

Tel. No.: +45 82 12 12 12

Poisoning Information Centre (Estonia)

Tel. No.: +372 626 93 90

Poison Information Centre (Finland)

Tel. No.: +358 09 471 977

ORFILA (INERIS) (France)

Tel. No.: + 33 (0) 1 45 42 59 59

Health Toxicological Information Service (Hungary)

Tel. No.: +36 80 20 11 99

Poison Centre (Iceland)

Tel. No.: +354 543 2222

National Poisons Information Centre (Ireland)

Tel. No.: + 353 (0)1 809 2566 / + 353 (0)1 837 9964

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Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs (Latvia)

Tel. No.: +371 670 42473

Health Emergency Situations Centre of the Ministry of Health, Poison Information Bureau (Lithuania)

Tel. No.: +370 5 236 20 52, mob.: +370 687 53378

Mater Dei Hospital (Malta)

Tel. No.: +356 2545 0000

National Poisons Information Centre (NVIC) (Netherlands)

Tel. No.: +31 (0) 30 274 8888

Mental Health Helpline (Norway)

Tel. No.: +47 22 59 13 00

Instituto Nacional de Emergência Médica (Portugal)

Tel. No.: + 351 213 303 271

Biroul RSI si Informare Toxicologica (Romania)

Tel. No.: +40 021 318 3606

National Toxicological Information Centre (NTIC) (Slovakia)

Tel. No.: +421 2 5477 4166

Toxicology Information Service (Spain)

Tel. No.: + 34 91 562 04 20

Swedish Poisons Information Centre (Sweden)

Tel. No.: +46 08 331231

Health and Safety Executive (HSE) (United Kingdom)

Tel. No.: +44 0151 922 9235

## Section 2. HAZARDS IDENTIFICATION

### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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

Flammable liquids, 2; H225

Eye Irrit. 2; H319

#### 2.1.2. Additional information

For full text of Hazard- and EU Hazard-statements: see section 16.

### 2.2. LABEL ELEMENTS

#### 2.2.1. Label according to Regulation (EC) No.: 1272/2008 [CLP]

Hazard pictograms



Signal word:

**Danger**

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements:

P102 Keep out of reach of children.

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

P233 Keep container tightly closed.

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+P313 If eye irritation persists: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents and container in accordance with national regulation.

Supplemental Hazard information (EU): None.

### 2.3. OTHER HAZARDS

Product does not meet the criteria for vPvB according to Regulation (EC) No. 1907/2006.

## Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. SUBSTANCES

Not applicable.

### 3.2. MIXTURES

Substance	CAS No.	EC No.	Classification:	Concentration (%)
			According EC No. 1272/2008	
Ethanol (REACH registration No. 01-2119457610-43-XXXX)	64-17-5	200-578-6	Flam. Liq. 2; H225 Eye Irrit. 2; H319 (Eye Irrit. 2; : C ≥ 50 %)	80%
Hydrogen peroxide solution ...%	7722-84-1	231-765-0	Ox. Liq. 1; H271 Acute Tox. 4; H302 Skin Corr. 1A; H314 Acute Tox. 4; H332 (Eye Irrit. 2; H319: 5 % ≤ C < 8 %; Ox. Liq. 1; H271: C ≥ 70 %; Ox. Liq. 2; H272: 50 % ≤ C < 70 %; Skin Corr. 1A; H314: C ≥ 70 %; Skin Corr. 1B; H314: 50 % ≤ C < 70 %; Skin Irrit. 2; H315: 35 % ≤ C < 50 %; STOT SE 3; H335; C ≥ 35 %; Eye Dam. 1; H318: 8 % ≤ C < 50 %; NOTE B)	0.125%
Glycerol	56-81-5	200-289-5	Not Classified.	1.45%
Water	7732-18-5	231-791-2	Not Classified.	to 100%

**Additional information:** The full text of H-statements: see section 16.

## Section 4. FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

**General information.** Get medical attention if any discomfort develops and show this SDS.

**In case of inhalation.** Remove person to fresh air. Obtain medical attention immediately.

**In case of skin contact.** Wash with soap and water. If there are long-term irritation symptoms, consult a doctor.

**In case of eye contact.** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**In case of ingestion.** Wash mouth with water and drink copious quantities of water. Seek medical advice immediately.

**Self-protection of the first aider.** Take care of your safety!

### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Product classified as hazardous to health, the long-term breathing vapour may have narcotic effect. In case of contact with eyes - redness, pain. Ingestion - bitter taste, nausea. Symptoms of alcohol poisoning as. Frequent and long-term effects of skin dryness.

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### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptomatic. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions. In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately.

## Section 5. FIREFIGHTING MEASURES

**General fire hazards.** Remove all unauthorized persons from the fire swept area. The product is flammable, so heating may generate vapours which may form explosive vapour / air mixtures.

### 5.1. EXTINGUISHING MEDIA

**Suitable extinguishing media.** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide (CO<sub>2</sub>), sand.

**Unsuitable extinguishing media.** Do not use water jet.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Thermal decomposition may produce toxic smoke, carbon monoxide (CO) gases and etc.

### 5.3. ADVICE FOR FIREFIGHTERS

**Special protective equipment for fire-fighters.** Fire fighters should to wear self-contained breathing apparatus and suitable protective fire-resistant anti-static clothing if risk of exposure to products of decomposition.

**Special fire-fighting procedures.** Tanks with mixture should be cooled with water spray through and promptly remove from the fire area. Fire extinguishing agents should not have access to the open water.

## Section 6. ACCIDENTAL RELEASE MEASURES

### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**For non-emergency personnel.** Stay upwind. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid contact with skin. Wear suitable protective clothing, gloves and eye/face protection. For personal protection, see Section 8.

**For emergency responders.** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

### 6.2. ENVIRONMENTAL PRECAUTIONS

Keep from spreading spill to the environment. Spills of high-volume – report environmental services.

### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

**For containment.** Spills of larger volume (eg. warehouses and so on.) – add absorbent material to pour into a clean container and in accordance with the instructions of Section 13 of the SDS.

**For cleaning up.** Spilled a mixture to collect or pumping. Remove residues with water.

**Other information.** Use tools, which do not cause sparks.

### 6.4. REFERENCE TO OTHER SECTIONS

For personal protection, see Section 8. For waste disposal, see section 13.

## Section 7. HANDLING AND STORAGE

### 7.1. PRECAUTIONS FOR SAFE HANDLING

**Advice on safe handling.** When using do not eat, drink or smoke. Extinguish any naked flames. In the room cannot be devices causing sparking. A good ventilation in workplaces. Wear protective clothing and personal protective equipment (see Section 8 of this SDS). Do not smoke. Avoid skin and eye contact and vapour breathing.

**Advice on protection against fire and explosion.** Take precautions against static charge. Keep away from heat and sources of ignition.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Requirements for storage areas and containers.** Store in a cool, dry, well ventilated place, in securely closed original container.

**Further information on storage conditions.** Do not store together with combustible materials. Do not store together with oxidizing, reducing agents, acids. Keep out of reach of children. Keep away from heating and direct sunlight.

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**7.3. SPECIFIC END USE(S)**

Not available.

**Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. CONTROL PARAMETERS**

Occupational exposure limits.

DNEL					
Substance	CAS No.	Exposure Type (long)		Exposure Type (short),	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
Ethanol	64-17-5	1000	500	1900	1000
Hydrogen peroxide	7722-84-1	–	–	0.71	0.5

**Biological limit values.** No biological exposure limits noted for the ingredient(s).**Recommended monitoring procedures.** Follow standard monitoring procedures.**8.2. EXPOSURE CONTROLS****General Information:** The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Ensure adequate ventilation; for explosion protection - to control the concentration in the air within the specified limits.**Appropriate engineering controls.** Ensure ventilation to control airborne concentrations below the exposure guidelines/limits.**INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT****General information.** Use personal protective equipment as required. Keep working clothes separately. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.**Eye/face protection.** Tight fitting goggles with side shields, or wide vision full goggles. Do not wear contact lenses when handling this product. It is also advisable to have individual pocket eyewash (EN 166).**Skin protection****- Hand protection.** Personal hygiene is a key element of effective hand care. Protective gloves made of butyl rubber, polychloroprene, polyvinyl chloride, nitrile meeting the requirements of EN 374.**Respiratory protection.** In case of inadequate ventilation or risk of inhalation. Do not breathe vapours. Use a mask with A type filter (EN 149).**Thermal hazards.** Not applicable.**Hygiene measures.** Wear clean work clothes. Observe the rules of personal hygiene. Wash hands after working and before breaks. Do not smoke, eat or drink in the workplace.**8.3. ENVIRONMENTAL EXPOSURE CONTROLS**

Contain spills and prevent releases, observe national regulations on emissions.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE:

clear liquid

COLOUR:

colourless

ODOUR:

specific alcohols

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ODOUR THRESHOLD:	no data available
pH:	8.2
MELTING POINT/FREEZING POINT:	no data available
INITIAL BOILING POINT AND BOILING RANGE:	no data available
FLASH POINT:	no data available
EVAPORATION RATE:	no data available
FLAMMABILITY (SOLID, GAS):	no data available
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	no data available
VAPOUR PRESSURE:	no data available
DENSITY:	no data available
RELATIVE DENSITY:	0.8221 (20 °C)
SOLUBILITY:	very soluble
PARTITION COEFFICIENT (N-OCTANOL/WATER):	no data available
AUTO-IGNITION TEMPERATURE:	no data available
DECOMPOSITION TEMPERATURE:	no data available
VISCOSITY:	2 mPa·s (60 rpm, 23 °C)
EXPLOSIVE PROPERTIES:	vapour with air form explosive mixtures
OXIDISING PROPERTIES:	no data available

### 9.2. OTHER INFORMATION

No additional information.

## Section 10. STABILITY AND REACTIVITY

### 10.1. REACTIVITY

The product is not reactive under normal conditions of use, storage and transport.

### 10.2. CHEMICAL STABILITY

Stable at normal conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None.

### 10.4. CONDITIONS TO AVOID

Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.

### 10.5. INCOMPATIBLE MATERIALS

Strong acids, strong oxidising agents and etc.

### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition of mixture: Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and other toxic gases or vapours.

## Section 11. TOXICOLOGICAL INFORMATION

**General information.** Occupational exposure to the substance or mixture may cause adverse effects.

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

#### Acute toxicity.

Ethanol, CAS No. 64-17-5:

Acute Oral Toxicity: LD50 - 7060 mg/kg (rat);

Acute Inhalation Toxicity: LC50 - 124.7 mg/l/4h, 133.8 mg/l/4h, >8000 mg/l/4h, 20000 ppm/10h (rat);

Acute Dermal Toxicity: LD50 - >20000 mg/l kg (rabbit).

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Hydrogen peroxide solution ...%, CAS No. 7722-84-1:

Acute Oral Toxicity: LD50 - 1026 mg/kg (rat);

Acute Inhalation Toxicity: LC50 - 170 mg/m<sup>3</sup>/4h (rat) (vapour);

Acute Dermal Toxicity: LD50 - >20000 ml/kg/24h (rabbit).

**Skin corrosion/irritation.** Not classified.

**Serious eye damage/eye irritation.** May cause eye irritation on direct contact.

**Respiratory or skin sensitisation.** Not classified.

**Germ cell mutagenicity.** Not classified.

**Carcinogenicity.** Not classified.

**Reproductive toxicity.** Not classified.

**STOT-single exposure.** Not classified.

**STOT-repeated exposure.** Not classified.

**Aspiration hazard.** Not applicable.

**Other information.** Long-term effects of ethanol vapour may cause drowsiness and dizziness. Ingestion may damage the gastrointestinal tract. May cause skin dryness.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. TOXICITY

Ethanol, CAS No. 64-17-5:

Fish (*Oncorhynchus mykiss*) LC50 - 11200 mg/l/24h;

Fish (*Leucistus idus melanotus*) LC50 - 8140 mg/l/48h;

Fish (*Pimephales promelas*) LC50 - 14.2 g/l/96h;

Invertebrates (*Daphnia magna*) EC50 - 10800 mg/l/24h; 9268-14221 mg/l/48h;

Algae (*Scenedesmus quadricauda*) EC50 - 5000 mg/l/7d;

Bacteria (*Pseudomonas putida*) IC50 - 6500 mg/l/16h.

Hydrogen peroxide solution ...%, CAS No. 7722-84-1:

Fish (*Pimephales promelas*) LC – 16.4 mg/l/24h;

Invertebrates (*Daphnia pulex*) EC50 – 2.4 mg/l/48h;

Algae (*Skeletonema costatum*) EC50 – 0.63 mg/l.

### 12.2. PERSISTENCE AND DEGRADABILITY

Ethanol and Hydrogen peroxide are readily biodegradable.

### 12.3. BIOACCUMULATIVE POTENTIAL

Not likely (log P (o/w) < 1).

### 12.4. MOBILITY IN SOIL

Volatile liquid - evaporates. A minor part may penetrate the soil and contaminate groundwater.

### 12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Not a PBT or vPvB substance or mixture.

### 12.6. OTHER ADVERSE EFFECTS

Not applicable.

## Section 13. DISPOSAL CONSIDERATION

### 13.1. WASTE TREATMENT METHODS

**Residual waste.** Dispose of in accordance with national regulations.

**Contaminated packaging.** Dispose of as unused product.

**EU waste code.** –.

**Disposal methods/information.** Dispose in accordance with all applicable regulations.

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### Section 14. TRANSPORT INFORMATION

Transport only in accordance with ADR for road haulage, RID for rail transportation, ADN/IMDG for carriage by vessel/sea and IATA for carriage by air.

<b>14.1. UN number.</b>	1170
<b>14.2. UN proper shipping name.</b>	Ethanol solution (ethyl alcohol solution)
<b>14.3. Transport hazard class(es).</b>	3
<b>14.4. Packing group.</b>	III
<b>14.5. Environmental hazards.</b>	No
<b>14.6. Special precautions for user.</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/8 and the IBC Code.</b>	Not applicable.

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### Section 15. REGULATORY INFORMATION

#### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

- Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);

- COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 132, 29.5.2015, p. 8–31);

- On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L353, volume 51 on 31 December, 2008;

- COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (OJ L 156, 14.6.2016, p. 1–102);

- REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products (OL 2012 L 167, p. 1);

- The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

#### 15.2. CHEMICAL SAFETY ASSESSMENT

For this product a chemical safety assessment has not been carried out.

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### Section 16. OTHER INFORMATION

#### 16.1. INDICATION OF CHANGES

Information contained in the Regulation 1907/2006/EC with the Regulation 2015/830.

**Indication of changes:** –

Date of filling: 08-04-2020

Revision: –

Version No.: 1

#### 16.2. Full text of Hazard and Precautionary statements

H225 Highly flammable liquid and vapour.

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.



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H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

P102 Keep out of reach of children.

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

P233 Keep container tightly closed.

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+P313 If eye irritation persists: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents and container in accordance with national regulation.

**Supplemental Hazard information (EU):** None.

### Abbreviations:

Flam. Liq. 2 – Flammable liquids (Category 2).

Ox. Liq. 1 – Oxidising liquids (Category 1).

Acute Tox. 4 – Acute toxicity – swallowed, inhaled (Category 4).

Skin Corr. 1A – Skin corrosion (Category 1A).

Eye Irrit. 2 – Eye irritation (Category 2).

### Acronyms:

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.

IMDG – International Maritime Dangerous Goods.

IATA – International Air Transport Association.

IMO – International Maritime Organization.

vPvB – Very Persistent and Very Bioaccumulative.

PBT – Persistent, Bioaccumulative and Toxic substance.

LC50 – Lethal Concentration to 50 % of a test population.

LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).

CAS – Chemical Abstracts Service number.

CEN – European Committee for Standardisation.

STOT – Specific Target Organ Toxicity.

PNEC(s) – Predicted No Effect Concentration(s).

SDS – Safety Data Sheet.

### KEY LITERATURE REFERENCES AND SOURCES FOR DATA:

The data provided by the European Chemicals Bureau (ECB), European Chemicals Agency (ECHA), Swedish Chemicals Agency (KEMI), International Laboratories Organization (ILO), the TOXNET Internet pages.

### Disclaimer

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