

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 30.07.2008

Revision: 30.07.2008

Trade name: ~~XXXXXXXXXX~~

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- Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.

• **Response:**

- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 If eye irritation persists: Get medical advice/attention.
 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 Eliminate all ignition sources if safe to do so.

• **Storage:**

- Store in a well-ventilated place.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

• **Disposal:**
















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

3 Composition/information on ingredients

• **Chemical characterization**

- **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 67-63-0 EINECS: 200-661-7	REACH Reg No.: 01-2119457558-25-XXXX	propan-2-ol	 Xi,  F; R 11-36-67 Danger:  2.6/2 Warning:  3.3/2A, 3.8/3	50-75%
CAS: 107-21-1 EINECS: 203-473-3	REACH Reg No.: 01-2119456816-28-XXXX	ethanediol	 Xn; R 22 Danger:  3.1.O/3	12.5-20%
CAS: 74-98-6 EINECS: 200-827-9	REACH Reg No.: 01-2119486944-21-XXXX	propane	 F+; R 12 Danger:  2.2/1 Warning:  2.5/L	5-10%
CAS: 106-97-8 EINECS: 203-448-7	REACH Reg No.: 01-2119474691-32-XXXX	butane	 F+; R 12 Danger:  2.2/1 Warning:  2.5/L	5-10%
CAS: 75-28-5 EINECS: 200-857-2	REACH Reg No.: 01-2119485395-27-XXXX	isobutane	 F+; R 12 Danger:  2.2/1 Warning:  2.5/L	5-10%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
 • **After skin contact:** Generally the product does not irritate the skin.
 • **After eye contact:**
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 • **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

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Trade name: **АМІОЦІУВІВІ**

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5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

67-63-0 propan-2-ol

WEL () Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

107-21-1 ethanediol

WEL () Short-term value: 104** mg/m³, 40** ppm
Long-term value: 10* 52** mg/m³, 20** ppm
Sk *particulate **vapour

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106-97-8 butane

WEL () Short-term value: 1810 mg/m³, 750 ppm
 Long-term value: 1450 mg/m³, 600 ppm
 Carc (if more than 0.1% of buta-1.3-diene)

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Protection of hands:** Not required.

· **Material of gloves:** Not required.

· **Penetration time of glove material:** Not required.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form: Aerosol
Colour: According to product specification
Odour: Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** < 0°C (< 32°F)
 Not applicable, as aerosol.

· **Ignition temperature:** 365°C (689°F)

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower: 2.0 Vol %
Upper: 53.0 Vol %

· **Vapour pressure at 20°C (68°F):** 3500 hPa (2625 mm Hg)

· **Density at 20°C (68°F):** 0.749 g/cm³

· **Solubility in / Miscibility with water:** Fully miscible.

· **Solvent content:**

Organic solvents: 85.1 %

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

67-63-0 propan-2-ol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
	LC50 / 4 h	30 mg/m3 (rat)

107-21-1 ethanediol

Oral	LD50	4700 mg/kg (rat)
Dermal	LD50	9530 mg/kg (rabbit)

106-97-8 butane

	LC50 / 4 h	658 mg/m3 (rat)
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- **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

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

12 Ecological information

- **Ecotoxicological effects:**

- **Aquatic toxicity:**

67-63-0 propan-2-ol

EC50 / 48 h	13299 mg/l (daphnia magna)
LC50 / 96 h (dynamic)	4200 mg/l (fish)

107-21-1 ethanediol

EC50	>10000 mg/l (daphnia magna)
LC50 / 96 h (static)	53000 mg/l (fish)

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

20 01 13	solvents
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Trade name: Аэрозоль

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15 01 04 metallic packaging

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label** 2.1
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ) LQ2**
- **Transport category** 2
- **Tunnel restriction code** B1D

- **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

- **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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· **Code letter and hazard designation of product:**



Xi Irritant
F+ Extremely flammable

· **Risk phrases:**

12 Extremely flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

2 Keep out of the reach of children.
23 Do not breathe aerosol.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

· **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Keep out of the reach of children

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

11 Highly flammable.
12 Extremely flammable.
22 Harmful if swallowed.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.

· **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)
RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

· *** Data compared to the previous version altered.**

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