

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****- 1.1 Product identifier****- Trade name: Brake Cleaner without Acetone Fluid****- Article number: LOS1000oA****- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.**- Application of the substance / the mixture**

Cleaning agent / Cleaner

Solvents

**- 1.3 Details of the supplier of the safety data sheet****- Manufacturer/Supplier:**

EURO-LOCK Vertriebs-GmbH

Nordweststraße 3

D - 59387 Ascheberg Tel.: +49 (0) 2593/95887-0 Fax: +49 (0) 2593/95887-29

Product safety department. Phone: +49 (0) 2593/95887-0

E-mail: info@euro-lock.de

**- 1.4 Emergency telephone number:**

Tel.: +49 0 2593/95887-0

Monday - Thursday 8.00 am - 5.00 pm, Friday 8.00 am - 1.00 pm

**SECTION 2: Hazards identification****- 2.1 Classification of the substance or mixture****- Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

**- 2.2 Label elements****- Labelling according to Regulation (EC) No 1272/2008**

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

**- Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

**- Signal word Danger****- Hazard-determining components of labelling:**

naphtha (petroleum), hydrotreated, light

**- Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

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**- Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
P405 Store locked up.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**- 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****- Description:** Solvent mixture.**- Dangerous components:**

CAS: 64742-49-0 921-024-6 Reg.nr.: 01-2119475514-35	naphtha (petroleum), hydrotreated, light Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	50-100%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-10%

**- Additional information**

For the wording of the listed hazard phrases refer to section 16.

The product contains a mixture of hydrocarbons (n-, iso- and cyclic aliphatics, predominantly in the range of C7-C8). Total aromatics &lt; 0,01 M-%. n-Hexane &lt; 5 M-%. Benzene &lt; 0,01 M-%.

Considered not to be PBT and vPvB according to Regulation (EC) No 1907/2006 (REACH)

**- Composition/Ingredients**

Constituents according to EC-Regulation 648/2004:

&gt; 30 % aliphatic hydrocarbons

**SECTION 4: First aid measures****- 4.1 Description of first aid measures****- General advice:** Instantly remove any clothing soiled by the product.**- After inhalation** Supply fresh air; consult doctor in case of symptoms.**- After skin contact**

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

**- After eye contact** Rinse immediately opened eye for several minutes under running water. Then consult doctor.**- After swallowing**

Do not induce vomiting; instantly call for medical help.

Administer medicinal carbon

**- 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
See section 8.  
Wear full protective suit with self-contained breathing apparatus.
- **Additional information**  
Endangered containers in the surrounding area should be cooled with a water-hose.  
If possible, remove product off fire area (danger of bursting).  
Collect contaminated fire fighting water separately. It must not enter drains.

## **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment and keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or water bodies.  
Prevent material from reaching sewage system, holes and cellars.  
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
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**

- **7.1 Precautions for safe handling**  
Keep containers tightly sealed.  
Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**  
Protect against direct sunlight, other sources of heat and ignition.  
Store in cool, dry conditions in well sealed containers.

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- **Requirements to be met by storerooms and containers:**  
Observe official regulations on storage and handling of water hazardous substances  
Suitable material for containers and pipes: Iron-containing alloys.
- **Information about storage in one common storage facility:**  
Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.
- **Further information about storage conditions:**  
Pay attention to regulations/technical rules for the storage of combustible liquids.
- **Storage class 3** (VCI - Konzept, 2007)
- **7.3 Specific end use(s)** No further relevant information available.

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

- **Additional information about design of technical systems:**  
Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

#### - 8.1 Control parameters

- **Components with critical values that require monitoring at the workplace:**

##### **64742-49-0 naphtha (petroleum). hydrotreated, light (50-100%)**

OEL	Long-term value: 1000 mg/m <sup>3</sup> , 250 ppm RCP (aliphatic dearomat. solvents)
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##### **67-63-0 propan-2-ol (2.5-10%)**

WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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#### - DNELs

##### **64742-49-0 naphtha (petroleum). hydrotreated, light**

Oral	DNEL (population)	699 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	699 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	773 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	608 mg/m <sup>3</sup> (Long-term - systemic effects)
	DNEL (worker)	2035 mg/m <sup>3</sup> (Long-term - systemic effects)

##### **67-63-0 propan-2-ol**

Oral	DNEL (population)	26 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	319 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	888 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	89 mg/m <sup>3</sup> (Long-term - systemic effects)
	DNEL (worker)	500 mg/m <sup>3</sup> (Long-term - systemic effects)

#### - PNECs

##### **67-63-0 propan-2-ol**

PNEC	2251 mg/l (sewage treatment plant)
PNEC aqua	140.9 mg/l (fresh water) 140.9 mg/l (marine water)
PNEC sediment	552 mg/kg (fresh water)
PNEC soil	28 mg/kg (soil)

- **Additional information:** The lists that were valid during the compilation were used as basis.

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**- 8.2 Exposure controls****- Personal protective equipment****- General protective and hygienic measures**

Keep away from food, beverages and fodder.

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

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

**- Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

**- Recommended filter device for short term use:**

Filter A

Combination filter A-P2

**- Protection of hands: Solvent resistant gloves****- Material of gloves**

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

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.

**- Penetration time of glove material**

Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

**- Eye protection: Tightly sealed safety glasses.****- Body protection: Protective work clothing.****SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:****Form:** Fluid**Colour:** Colourless**- Smell:** Benzen-like  
mild**- Odour threshold:** Not determined**- pH-value:** Not applicable**- Change in condition****Melting point/Melting range:** Not determined**Boiling point/Boiling range:** > 80 °C**- Flash point:** -10 °C**- Ignition temperature:** 275 °C  
(lowest level for individual components)**- Self-inflammability:** Product is not selfigniting.**- Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.**- Critical values for explosion:****Lower:** 0.6 Vol %

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<b>Upper:</b>	12 Vol % (Higher and lower level for individual components)
- Vapour pressure at 20 °C:	85 hPa
- Density at 20 °C	0.73 g/cm <sup>3</sup>
- Relative density	Not determined
- Vapour density	Not determined
- Evaporation rate	Not determined
- Solubility in / Miscibility with Water:	Insoluble
- Partition coefficient (n-octanol/water):	Not determined
- Viscosity: dynamic:	Not determined
kinematic:	Not determined
- Solvent content: Organic solvents:	100 %
- 9.2 Other information	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
To avoid: warmth, flames, sparks
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** strong oxidizing agents
- **10.6 Hazardous decomposition products:** Formation of carbon monoxide and carbon dioxide in case of fire.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**- LD/LC50 values that are relevant for classification:****64742-49-0 naphtha (petroleum). hydrotreated, light**

Oral	LD50	> 5840 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rab)
		> 2920 mg/kg (rbt)
Inhalative	LC 50 / 4 h	> 25 mg/l (rat) (vapour)
		88 mg/l (rat)

**67-63-0 propan-2-ol**

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rab)
		13400 mg/kg (rab)

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Inhalative	LC 50 / 4 h	30 mg/l (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):** No experimental indications of mutagenic effects.
- **Subacute to chronic toxicity:**
- **STOT-repeated exposure:**  
Not expected to cause organ damage arising from prolonged or repeated exposure.

### 67-63-0 propan-2-ol

Oral	NOAEL	900 mg/kg (rat) ((90d) OECD 408)
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- **Aspiration hazard:**  
May be fatal if swallowed and enters airways. Based on physical and chemical properties of the product.
- **Additional toxicological information:**  
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Aspiration into the lungs may cause chemical pneumonitis which can be fatal.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
The ingredients in this mixture do not meet the criteria for classification as CMR categories according to CLP.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### - 12.1 Toxicity

#### - Aquatic toxicity:

#### 64742-49-0 naphtha (petroleum). hydrotreated, light

EC 50	1-10 mg/l (Aquatic invertebrates)
	1-10 mg/l (Algae)
LC 50	10-100 mg/l (fish)
NOELR	2.045 mg/l (Oncorhynchus mykiss) (28 d)
	1 mg/l (Daphnia magna) (21 d (OECD 211))

#### 67-63-0 propan-2-ol

EC 50 / 48 h	> 100 mg/l (Daphnia magna)
EC 50 / 72 h	> 100 mg/l (Scenedesmus subspicatus)
LC 50 / 48 h	> 100 mg/l (Leuciscus idus)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential**  
swims on water. Bioaccumulation possible.  
Evaporates within a day from water or soil surfaces.
- **12.4 Mobility in soil** No further relevant information available.

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- **Ecotoxicological effects:**
- **Remark:** The values for the aquatic toxicity derived from the test results of similar products.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water.  
Do not allow to enter drainage system, surface or ground water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**  
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
If possible, send to be recycled, otherwise burn or deposit in a certified facility.
- **Waste disposal key number:**  
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.
- **Uncleaned packagings:**
- **Recommendation:**  
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.  
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.  
Caution: Leftovers in the containers may cause the risk of explosion.  
Uncleaned containers should not be perforated, cut or welded.

### \* SECTION 14: Transport information

- <b>14.1 UN-Number</b>	
- <b>ADR, IMDG, IATA</b>	UN1993
- <b>14.2 UN proper shipping name</b>	
- <b>ADR</b>	1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, ISOPROPANOL (ISOPROPYL ALCOHOL)), special provision 640D
- <b>IMDG</b>	FLAMMABLE LIQUID, N.O.S. (OCTANES, ISOPROPANOL (ISOPROPYL ALCOHOL)), MARINE POLLUTANT
- <b>IATA</b>	FLAMMABLE LIQUID, N.O.S. (OCTANES, ISOPROPANOL (ISOPROPYL ALCOHOL))
- <b>14.3 Transport hazard class(es)</b>	
- <b>ADR</b>	
- <b>Class</b>	3 (F1) Flammable liquids.
- <b>Label</b>	3

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- <b>IMDG, IATA</b> - <b>Class</b> - <b>Label</b>	3 Flammable liquids. 3
- <b>14.4 Packing group</b> - <b>ADR, IMDG, IATA</b>	II
- <b>14.5 Environmental hazards:</b> - <b>Marine pollutant:</b> - <b>Special marking (ADR):</b>	Yes Symbol (fish and tree) Symbol (fish and tree)
- <b>14.6 Special precautions for user</b> - <b>Kemler Number:</b> - <b>EMS Number:</b>	Warning: Flammable liquids. 33 F-E,S-E
- <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
- <b>Transport/Additional information:</b>	
- <b>ADR</b> - <b>Limited quantities (LQ)</b> - <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- <b>Transport category</b> - <b>Tunnel restriction code</b>	2 D/E
- <b>IMDG</b> - <b>Limited quantities (LQ)</b> - <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- <b>UN "Model Regulation":</b>	UN1993, FLAMMABLE LIQUID, N.O.S., ENVIRONMENTALLY HAZARDOUS, 3, II

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
naphtha (petroleum). hydrotreated, light
- **Hazard statements**  
H225 Highly flammable liquid and vapour.

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*H315 Causes skin irritation.**H319 Causes serious eye irritation.**H336 May cause drowsiness or dizziness.**H304 May be fatal if swallowed and enters airways.**H411 Toxic to aquatic life with long lasting effects.***- Precautionary statements***P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P271 Use only outdoors or in a well-ventilated area.**P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.**P331 Do NOT induce vomiting.**P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.**P405 Store locked up.**P403+P235 Store in a well-ventilated place. Keep cool.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***- National regulations****- Information about limitation of use:** *Employment restrictions concerning young persons must be observed.***- VOC** ~ 730 g/l volatile organic compounds (Council Directive 2010/75/EC).**- 15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.***SECTION 16: Other information**

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**- Application:** *Directions for use: please refer to the Technical Information Sheet***- Relevant phrases**

*Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.*

*H225 Highly flammable liquid and vapour.**H304 May be fatal if swallowed and enters airways.**H315 Causes skin irritation.**H319 Causes serious eye irritation.**H336 May cause drowsiness or dizziness.**H411 Toxic to aquatic life with long lasting effects.***- Department issuing data specification sheet:** *see item 1: Informing department***- Abbreviations and acronyms:***NOAEL: No Observed Adverse Effect Level**RPE: Respiratory Protective Equipment**RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)**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**CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)**DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids, Hazard Category 2**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*

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**EURO-LOCK<sup>®</sup>**

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

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Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

- \* **Data compared to the previous version altered.**

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