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

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name: COYOTE SILKAL 93**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
Descriptors (SU category, PC, PROC, ERC, AC) of the substance or mixture are not available.
· **Application of the substance / mixture**
Lubricant.
(see more labels, or product / data sheet)
· **Not recommended uses** All except above mentioned uses.

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

· **Manufacturer/Supplier:**
AutoMax Group s.r.o.
K Hájům 1233/2
CZ-155 00 Praha 5
tel: +420 272 700 530, fax: +420 272 700 531
info.cz@automax-group.com, www.automax-group.com

· **Further information obtainable from:** EKO-ADR, s.r.o., ekoadr@ekoadr.sk

· **1.4 Emergency telephone number:**
Poisons Centres in Europe (consultation in case of acute intoxication):
http://www.eapcct.org/index.php?page=links

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**
Product is classified as hazardous.


GHS02 flame

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.


GHS07

Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful 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

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
· **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P264 Wash hands thoroughly after handling with water/soap.
P273 Avoid release to the environment.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to hazardous waste.

· **2.3 Other hazards**
Vapours forms explosive mixtures with air at ambient temperatures.
Aerosol containers can explode when heated, due to excessive pressure build-up.
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures:**
· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

REACH IT List Number 921-024-6 Reg.nr.: 01-2119475514-35-XXXX	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	2.5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-XXXX	isobutane Flam. Gas 1, H220 Press. Gas C, H280	<65%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-XXXX	butane Flam. Gas 1, H220 Press. Gas C, H280	<5%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-XXXX	propane Flam. Gas 1, H220 Press. Gas C, H280	<10%

· **Additional information:** For the wording of the listed hazard statements refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Remove contaminated clothing and shoes (for use of personal protective equipment, see section 8). In case of any uncertainty or if any symptoms occur, seek medical assistance and show this SDS or label. Protect your health. Information for doctor: treatment is symptomatic.
· **After inhalation:** Ensure of fresh air. In the event of symptoms refer for medical treatment.
· **After skin contact:**
In case of contact with skin wash off with soap and water. Remove contaminated clothing. Seek medical help if necessary.
· **After eye contact:**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical help if necessary.
· **After swallowing:**
If swallowed by mistake wash out with plenty of water. Do not induce vomiting. Call doctor immediately.
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
Carbon dioxide, dry extinguisher, alcohol resistant foam (large fire). Cool container at risk with water jet spray.
Fire-extinguishing activities according to surrounding.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet.
· **5.2 Special hazards arising from the substance or mixture**
Development of hazardous combustion gases or vapours possible in the event of fire (carbon dioxide, carbon monoxide). Vapours are being heavier than air. Forms explosive mixtures with air at ambient temperatures.
· **5.3 Advice for firefighters**
· **Protective equipment:**
Do not stay in dangerous zone without self-contained breathing apparatus. Use chemical overall and equipment.
· **Additional information**
Cool container with spray water from a save distance. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
For non-emergency personnel:
Do not inhale vapours/aerosols. Ensure supply of fresh air in enclosed rooms. Avoid contact with eyes and skin.
For emergency responders:
More info in section 5.
· **6.2 Environmental precautions:** Do not discharge into the drains/surface waters/groundwater.
· **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust). Forward for disposal. Clean up affected area.
· **6.4 Reference to other sections**
See section 7 for information on safe handling. See section 8 for information on personal protective equipment.
See section 13 for information on safe disposal.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Open and handle receptacle with care.
Before the usage check out sections 2, 6, 8 and 11. Don't breathe aerosols/fumes. Eating, drinking, smoking as well as food storage, is prohibited in work room.
· **Information about fire - and explosion protection:**
Pressurised 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.
Do not spray onto a naked flame or any incandescent material.

Notes for prevention of fire and explosion: Take measures to prevent electrostatic charging. Keep away from sources of ignition.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store tightly closed in a well-ventilated place, away from sources of ignition and heat.
Store between 0 ºC and 30 ºC.
Store in accordance with requirements for storage of environmental hazardous liquids.
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidising agents.
· **Further information about storage conditions:** Keep container tightly sealed.

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· **7.3 Specific end use(s)** Right usage of product is enclosed in product documentation or on label.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**
· **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace under EU law (for more infomation check out the national/local requirements).
· **DNELs (Derived No Effect Level)**
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Workers (employees):
DNEL (chronic dermal) = 773 mg / kg / 24h
DNEL (chronic inhal) = 2035 mg / m3
Consumers:
DNEL (chronic dermal) = 699 mg / kg / 24h
DNEL (chronic inhal) = 608 mg / m3
DNEL (chronic oral) = 699 mg / kg / 24h
· **Additional Occupational Exposure Limit Values for possible hazards during processing:**
propane/butane (LPG)
Long-term value: 1800 mg/m3
Short-term value: 4000 mg/m3
· **Additional information:**
IOELV - Indicative Occupational Exposure Limit Value (EU), TLV - Treshold Limit Value. The exposure limits can be measured only by an authorized person.

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Handle in accordance with good industrial hygiene and safety practice. Supply fresh air / ventilation.

· **Respiratory protection:**

Normally not required. In case of insufficient ventilation and aerosol formation use suitable breathing mask (EN136, EN140, etc.) with filter against organic vapors.

Filter A (EN 14387+A1).

· **Hand protection:**
Normally it not required. In case of prolonged exposure of the skin to use:

Protective gloves (EN 374).

· **Material of gloves**
Nitrile rubber, NBR (EN 374).
Butyl rubber, BR (EN 374).
Recommended thickness of the material: ≥ 0.4 mm
· **Penetration time of glove material**
≥ 480 min (EN 374).
Glove material must be impermeable and resistant against product / substance / preparation. Gloves material should comply with breakthrough times, permeation rates, and degradation. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection:**

Wear closely fitting protective glasses with side protection (EN 166) in case of splashes.

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· **Body protection:**
Protective work clothing with long sleeves (EN ISO 6529), where appropriate safety shoes (EN ISO 20345).

· **Environmental exposure controls** Not relevant.
· **Risk management measures** Not available.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Aerosol
Colour:	Colourless Yellow tint
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Not applicable, as aerosol.
· **Flash point:**	cca -80 °C
· **Flammability (solid, gas):**	Not applicable.
· **Auto-ignition temperature:**	365 °C
· **Decomposition temperature:**	Not determined.
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
· **Explosion limits:**	
Lower:	1.4 Vol %
Upper:	11.2 Vol %
· **Oxidising properties**	No.
· **Vapour pressure at 20 °C:**	0.4 mPas
· **Relative density at 20 °C:**	0.63-0.66 g/cm³
· **Vapour density**	1.79-1.94 (vzduch=1)
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with water:**	Insoluble.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
VOC (EC)	0.800 kg/kg
TOC:	0.661 kg/kg
Non-volatile substances:	No further relevant information available.
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** See section 10.3.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** See section 7.

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· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** Prevent from: heating-up, flames, ignition sources.
· **10.5 Incompatible materials:** Oxidizing agents, strong acids and bases.
· **10.6 Hazardous decomposition products:** See section 5.

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 relevant for classification:**		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	LD50	> 5840 mg/kg (rat) (OECD 401 - Acute Oral Toxicity)
Dermal	LD50	> 2920 mg/kg (rabbit) (OECD 402 - Acute Dermal Toxicity)
Inhalative	LC50/4 h	> 25.2 mg/l (rat) (OECD 403 - Acute Ihalation Toxicity)
CAS: 75-28-5 isobutane		
Inhalative	LC50/4 h	658 mg/l (rat)
CAS: 106-97-8 butane		
Inhalative	LC50/4 h	658 mg/l (rat)
CAS: 74-98-6 propane		
Inhalative	LC50/4 h	658 mg/l (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation:**
Causes skin irritation.
· **Serious eye damage/irritation:**
Based on available data, the classification criteria are not met.
Product may irritate eyes.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **CMR effects (carcinogenity, germ cell mutagenicity, toxicity for reproduction):**
· **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:** Based on available data, the classification criteria are not met.
· **Note:** Information about the possible health effects of substances in the mixture are given in sections 3 and 16.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
EC50 (48 hod.)	3 mg/l (daphnia)
IC50 (72 hod.)	30-100 mg/l (algae)
LC50 (96 hod.)	11.4 mg/l (fish)
NOEC/NOEL (21d)	1 mg/l (daphnia) (OECD 211 - Daphnia magna Reproduction Test)
CAS: 75-28-5 isobutane	
LC50 (96 hod.)	> 1000 mg/l (fish)
CAS: 106-97-8 butane	
LC50 (96 hod.)	> 1000 mg/l (fish)
CAS: 74-98-6 propane	
LC50 (96 hod.)	> 1000 mg/l (fish)

· **12.2 Persistence and degradability**
The product is not readily biodegradable.
The mixture component (hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane) is biodegradable: 81% / 28 days (analogous conclusion).

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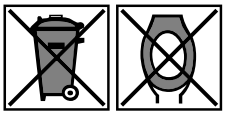
· **12.3 Bioaccumulative potential**
Assessment of bioaccumulation potential: log Pow <1 - bioaccumulation is not expected log Pow = 1-3 - significant bioaccumulation is not expected log Pow> 3 - bioaccumulation is possible.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane: log Pow = 3,4 - 5,2; BCF = 242 to 253.
propane: log Pow = 2,28
butane: log Pow = 2,98
· **12.4 Mobility in soil** Highly volatile.
· **Additional ecological information:**
· **General notes:**
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Classified as hazardous for environment.
May cause long-term adverse effects in the aquatic environment.
Harmful to aquatic organisms
· **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**
· **Recommendation**



Must not be disposed together with household garbage. Do not allow product to reach sewage system. Waste can be temporarily stored in original packing. Use personal protective equipment (see section 8). Potential physical / chemical properties of the waste - see section 2 and 9.

Waste producer has the treatment handled by a dealer or an establishment or undertaking which carries out waste treatment operations or arranged by a private or public waste collector. While respecting all the physical/ chemical (and other) aspects of the nature of the waste in accordance with the waste hierarchy in the following order: 1. Prevention, 2. Reuse, 3. Material recovery (recycling), 4.Other recovery (e.g. energy recovery), 5. Disposal (e.g. landfilling). Waste legislation (see section 15).
· **European waste catalogue**
Catalogue numbers with an asterisk (*) indicate hazardous wastes (H), numbers without asterisk indicates non-hazardous waste (NH).

16 05 04*	gases in pressure containers (including halons) containing hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances

· **Uncleaned packaging:**
· **Recommendation:** Dispose as a hazardouse waste.

SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR/RID/ADN, IMDG, IATA** UN1950

· **14.2 UN proper shipping name**
· **ADR/RID/ADN** UN1950 AEROSOLS
· **IMDG** AEROSOLS
· **IATA** AEROSOLS, flammable

· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN**

· **Class** 2 5F Gases.

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· **Label**	2.1
· **IMDG, IATA**	
	
· **Class**	2.1
· **Label**	2.1
· **14.4 Packing group**	
· **ADR/RID/ADN, IMDG, IATA**	Void
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Warning: Gases.
· **Danger code (Kemler):**	-
· **EMS Number:**	F-D,S-U
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	Classified as dangerous goods by transport.
· **ADR/RID/ADN**	
· **Limited quantities (LQ)**	1L
· **Transport category**	2
· **Tunnel restriction code**	D

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Hazard categories** P3a FLAMMABLE AEROSOLS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
· **Tactile warnings** It may not be placed on the packaging.
· **Packaging to be fitted with child-resistant fastenings** It may not be placed on the packaging.
· **European legislation:**
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (and subsequent amendments and supplements).
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (and subsequent amendments and supplements).
COMMISSION REGULATION (EU) No 830/2015 amending Regulation (EC) No 1907/2006 REACH.
DIRECTIVE 2008/98/EC OF THE EP AND OF THE COUNCIL on waste and repealing certain Directives (and subsequent amendments and supplements).
Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers (and subsequent amendments and supplements).
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.
Classification of the mixture was carried out according to the methods given in Annex I to CLP.

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· **Relevant phrases**
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
· **Training hints** Workers must be trained in accordance with local provisions.
· **Abbreviations and acronyms:**
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
NLP: No-Longer Polymers
CAS: Chemical Abstract Service
SDS: Safety Data Sheet
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international 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)
CLP – Classification, Labeling and Packaging of substances and mixtures (abreviation for Regulation 2008/1278/EC)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
VOC: Volatile Organic Compounds (USA, EU), TOC: Total Organic Compounds
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3