

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

Printing date 21.11.2023

Version number 308 (replaces version 307)

Revision: 21.11.2023

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

- **1.1 Product identifier** 600090
- **Trade name:** Jump start spray E-COLL
- **Article number:** 4317784409346
- **UFI:** PMER-AXM9-SC0W-SFK5
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
SU21 Consumer uses: Private households / general public / consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the mixture** Water displacing agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
E/D/E - Einkaufsbuero Deutscher Eisenhaendler GmbH
EDE Platz 1
D-42389 Wuppertal
Germany

Tel. +49 202 6096-0
e-mail: sdb@ede.de
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:** Giftinformationszentrum Mainz – Tel.: +49 (6131) 19240

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

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

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· Hazard pictograms

GHS02 GHS07

· Signal word Danger**· Hazard-determining components of labelling:**hydrocarbons, C6-C7, n-alkanes,
acetone
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes**· Hazard statements**H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.**· Precautionary statements**P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P271 Use only outdoors or in a well-ventilated area.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.**· Additional information:**

Buildup of explosive mixtures possible without sufficient ventilation.

· 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:** Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:		
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane ⚠ Flam. Gas 1A, H220 ⚠ Press. Gas (Comp.), H280	25-50%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-xxxx 01-2119498062-37-xxxx	acetone ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	10-<25%
CAS: 1634-04-4 EINECS: 216-653-1 Index number: 603-181-00-X	tert-butyl methyl ether ⚠ Flam. Liq. 2, H225 ⚠ Acute Tox. 3, H311 ⚠ Skin Irrit. 2, H315	2.5-10%
CAS: 64742-49-0 EC number: 921-024-6 Reg.nr.: 01-2119475514-35-xxxx	hydrocarbons, C6-C7, n-alkanes, ⚠ Flam. Liq. 2, H225 ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
CAS: 64742-49-0 EINECS: 265-151-9	Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes ⚠ Flam. Liq. 2, H225 ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315	2.5-10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane ⚠ Flam. Gas 1A, H220 ⚠ Acute Tox. 1, H330 ⚠ Press. Gas (Comp.), H280	2.5-10%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane, pure ⚠ Flam. Gas 1A, H220 ⚠ Press. Gas (Comp.), H280	<1.25%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X	methanol ⚠ Flam. Liq. 2, H225 ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ⚠ STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	0.1-<1%

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **After inhalation:** Supply fresh air.

· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.

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If skin irritation continues, consult a doctor.

· 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.**· 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.

SECTION 5: Firefighting measures**· 5.1 Extinguishing media****· Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet**· 5.2 Special hazards arising from the substance or mixture** No further relevant information available.**· 5.3 Advice for firefighters****· Protective equipment:** Do not inhale explosion gases or combustion gases.**· Additional information** Cool endangered receptacles with water spray.**SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Dispose contaminated material as waste according to section 13.

· 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 disposal information.

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Open and handle receptacle with care.
Use only in well ventilated areas.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Do not spray onto a naked flame or any incandescent material.

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.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility: Store away from oxidising agents.**Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 67-64-1 acetone**IOELV Long-term value: 1210 mg/m³, 500 ppm**CAS: 1634-04-4 tert-butyl methyl ether**IOELV Short-term value: 367 mg/m³, 100 ppm
Long-term value: 183.5 mg/m³, 50 ppm**CAS: 67-56-1 methanol**IOELV Long-term value: 260 mg/m³, 200 ppm
Skin**DNELs****CAS: 64742-49-0 hydrocarbons, C6-C7, n-alkanes,**

Oral	DNEL Langzeitwert Verbraucher	699 mg/kg/d (cus)
Dermal	Long term value for employees	773 mg/kg bw/Tag (industrial use)
Inhalative	Long term value for employees	2,035 mg/m ³ (industrial use)

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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- **Respiratory protection:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
Self-contained respiratory protective device.
- **Hand protection** Recommendation: protective gloves
- **Material of gloves**
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.4 mm
- **Penetration time of glove material**
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** Safety glasses

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** Colourless
- **Odour:** Ether-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Not applicable, as aerosol.
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** 1.4 Vol %
- **Upper:** 13 Vol %
- **Flash point:** Not applicable, as aerosol.
- **Auto-ignition temperature:** 170 °C
- **Decomposition temperature:** Not determined.
- **pH** Not determined.
- **Viscosity:**
- **Kinematic viscosity** Not determined.

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- **Kinematic: 23 °C - 4 mm (ISO 2431)**
- **Dynamic:** Not determined.
- **Solubility**
- **water:** Not miscible or difficult to mix.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure at 20 °C:** 3,000 hPa
- **Density and/or relative density**
- **Density at 20 °C:** 0.65 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.

- **9.2 Other information**
- **Appearance:**
- **Form:** Aerosol
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** May form explosive peroxides.
- **Solvent separation test:**
- **Organic solvents:** 80.9 %
- **Change in condition**
- **Drip point:**
- **Oxidising properties** Not determined.
- **Evaporation rate** Not applicable.

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Extremely flammable aerosol. Pressurised container: May burst if heated.
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

• **LD/LC50 values relevant for classification:****CAS: 67-64-1 acetone**

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4h	76 mg/m ³ (rat)

CAS: 1634-04-4 tert-butyl methyl ether

Oral	LD50	4,000 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rabbit)
Inhalative	LC50/4h	142 ppm (rat)

CAS: 64742-49-0 hydrocarbons, C6-C7, n-alkanes,

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	2,800-3,100 mg/kg (rat)
Inhalative	LC50/4h	25.2 ppm (rat)

CAS: 74-98-6 propane

Inhalative	LC50/4h	>20 mg/m ³ (rat)
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CAS: 106-97-8 butane, pure

Inhalative	LC50/4h	658 ppm (rat)
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CAS: 67-56-1 methanol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

- **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.

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- **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.

11.2 Information on other hazards
· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity:
CAS: 75-28-5 isobutane

EC50 (48h)	69.43 mg/L (daphnia)
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CAS: 67-64-1 acetone

LC50 (96h)	5,000 mg/L (Lepomis macrochirus)
LC50/48h	8,800 mg/l (Daphnia magna)
NOEC	430 mg/l (algae)
NOEC/16h	1,700 mg/l (Pseudomonas putida)
NOEC/48h	4,740 mg/l (Pseudokirchneriella subcapitata)
96h LC50	5,540 mg/l (Oncorhynchus mykiss)

CAS: 64742-49-0 hydrocarbons, C6-C7, n-alkanes,

LC50 (96h)	1-10 mg/L (Pimephales promelas)
EC50 (48h)	1-10 mg/L (daphnia)
NOEC (21d)	1 mg/l (daphnia)
NOEC	2.045 mg/l /28 Days (Oncorhynchus mykiss)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

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· 12.7 Other adverse effects**· Remark:** Harmful to fish**· Additional ecological information:****· General notes:**

Harmful to aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations**· 13.1 Waste treatment methods:**

Containers can be recycled if completely empty; if not, dispose product/containers as dangerous waste. Observe local regulations.

· European waste catalogue

16 05 04* gases in pressure containers (including halons) containing hazardous substances

SECTION 14: Transport information**· 14.1 UN number or ID number****· ADR, IMDG, IATA** UN1950**· 14.2 UN proper shipping name****· ADR** UN1950 AEROSOLS
· IMDG, IATA AEROSOLS**· 14.3 Transport hazard class(es)****· ADR****· Class** 2 5F Gases.
· Label 2.1**· IMDG, IATA****· Class** 2 Gases.
· Label 2.1**· 14.4 Packing group****· ADR, IMDG** Void

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- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Gases.
- **EMS Number:** F-D,S-U
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 1L
- **Transport category** 2
- **Tunnel restriction code** D
- **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
- **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,
acetone
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P271 Use only outdoors or in a well-ventilated area.
P302+P352 IF ON SKIN: Wash with plenty of water.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU**· Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t****· Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t****· REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 69**· REGULATION (EU) 2019/1148**

The product contains: Reportable explosives precursors. Making available, transfer, possession and use in accordance with Regulation (EU) 2019/1148, Article 9.

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients are included.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS CAS: 67-64-1 Acetone**· National regulations:****· Information about limitation of use:**

Employment restrictions concerning pregnant and lactating women must be observed.

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.

· Relevant phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H370 Causes damage to organs.
H371 May cause damage to organs.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

· Department issuing SDS: Product safety department**· Contact:** sdb@ede.de**· Date of previous version:** 21.11.2023**· Version number of previous version:** 307

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· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals
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)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 1: Acute toxicity – Category 1
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
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

· * Data compared to the previous version altered.