

**PONY**

Pony Testing International Group

Report No.: MDIZER5N30839716

# MSDS Report

Sample Description  
& Model

Lithium-ion Battery 18650

Applicant

Carl Walther GmbH

Address

Donnerfeld 2, 59757 Arnsberg,  
DeutschlandNo.: MDIZER5N30839716  
Code: d08qfv0**PONY** 谱尼测试  
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## Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.6 (GHS)

### Section 1 - Chemical Product and Company Identification

#### Chemical product identification

**Sample Description:** Lithium-ion Battery

**Sample Model:** 18650

**Recommended Uses:** Flashlight

**Restrictions on use:** N/A

**Address:** 06C-1, Zhongshan Huoju (Yangxi) Industry Zone, Yangxi, Guangdong, China

**Phone number:** 02932-638 01

**FAX:** 02932-638 244

**E-mail:** verkauf@umarex.de

**Emergency phone number:** 02932-638 01

### Section 2 - Hazards Identification

**Emergency overview:** This product is an article which contains a chemical substance.

Safety information is given for exposure to the article as sold. Intended use of the product should not result in exposure to the chemical substance. This is a battery.

In case of rupture: the below hazards exist.

**CAS#** 1333-86-4

**Classification according to GHS**

Carcinogenicity (2)

Specific target organ toxicity, repeated exposure (1) (lung)

#### Label elements

**Hazard pictogram(s):**

**Signal word:**

Danger

**Hazard statement(s):**

H351 Suspected of causing cancer

H372 Causes damage to organs through prolonged or repeated exposure (lung)

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## Precautionary statement(s):

### Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P260 Do not breathe dust.

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

### Response:

P308 + P313 IF exposed or concerned: Get medical advice.

P314 Get medical advice if you feel unwell.

### Storage

P405 Store locked up.

### Disposal:

P501 Contents handling to approved waste treatment plants.

CAS# 616-38-6

## Classification according to GHS

Flammable liquids (2)

Specific target organ toxicity, single exposure; Narcotic effects (3)

Reproductive toxicity (2)

## Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

H225 Highly flammable liquid and vapour

H336 May cause drowsiness or dizziness

H361 Suspected of damaging fertility or the unborn child

Precautionary statement(s):

### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof equipment.



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- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P261 Avoid breathing gas, mist, vapours and spray.
- P271 Use only outdoors or in a well-ventilated area.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- Response:**
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P370 + P378 In case of fire: Use the appropriate media put out the fire.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor, if you feel unwell.
- P308 + P313 IF exposed or concerned: Get medical advice.

**Storage**

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

**Disposal:**

- P501 Contents handling to approved waste treatment plants.

**CAS# 7440-50-8**

**Classification according to GHS**

- Specific target organ toxicity, single exposure; Respiratory tract irritation (3)
- Specific target organ toxicity, repeated exposure (1) (liver)
- Hazardous to the aquatic environment, long-term hazard (3)

**Label elements**

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

- H335 May cause respiratory irritation
- H372 Causes damage to organs through prolonged or repeated exposure (liver)
- H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s):



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**Prevention:**

- P271 Use only outdoors or in a well-ventilated area.
- P260 Do not breathe dust.
- P264 Wash skin and clothing thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.

**Response:**

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor, if you feel unwell.

**Storage**

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

- P501 Contents or container handling to approved waste treatment plants.

CAS# 7429-90-5

Classification according to GHS

Specific target organ toxicity, repeated exposure (1) (Lung)  
Hazardous to the aquatic environment, long-term hazard (4)

**Label elements**

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

- H372 Causes damage to organs through prolonged or repeated exposure (Lung)
- H413 May cause long lasting harmful effects to aquatic life

Precautionary statement(s):

**Prevention:**

- P260 Do not breathe dust.
- P264 Wash skin and clothing thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.

**Response:**

- P314 Get medical advice if you feel unwell.

**Storage**

None.

**Disposal:**

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天津分公司: 0991-6694166	沈阳分公司: 021-59359670	青岛分公司: 0512-62997900	厦门分公司: 0592-5568048



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P501 Contents handling to approved waste treatment plants.

**CAS# 7440-02-0**
**Classification according to GHS**

Sensitisation, respiratory (1)

Sensitisation, skin (1)

Carcinogenicity (2)

Specific target organ toxicity, repeated exposure (1) (respiratory system)

Hazardous to the aquatic environment, long-term hazard (4)

**Label elements**
**Hazard pictogram(s):**

**Signal word:**

Danger

**Hazard statement(s):**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 May cause an allergic skin reaction

H351 Suspected of causing cancer

H372 Causes damage to organs through prolonged or repeated exposure (respiratory system)

H413 May cause long lasting harmful effects to aquatic life

**Precautionary statement(s):**
**Prevention:**

P284 [In case of inadequate ventilation] wear respiratory protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

**Response:**

P304 + P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice.

P321 Specific treatment.

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天津实验室: 022-27360730	大连实验室: 0411-84659820	杭州实验室: 0571-87219096	武汉实验室: 027-83997127
济南实验室: 0291-6681126	柳州实验室: 0771-69350630	贵阳实验室: 0512-62997900	厦门实验室: 0592-5568048

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- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P308 + P313 IF exposed or concerned: Get medical advice.
- P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor.
- P314 Get medical advice if you feel unwell.
- Storage**
- P405 Store locked up.
- Disposal:**
- P501 Contents or container handling to approved waste treatment plants.

**Other hazards**

- Physical and chemical hazards:** See Section 10
- Human health hazards:** See Section 11
- Environmental hazards:** See Section 12

**Section 3 – Composition/Information on Ingredients**

**Chemical characterization: Mixture**

Chemical Composition	CAS No.	EC#	Weight (%)
Cobaltate, lithium	12190-79-3	235-362-0	34.76
Graphite	7782-42-5	231-955-3	16.35
Carbon black	1333-86-4	215-609-9	7.91
Rubber, styrene-butadiene, fume	61789-96-6	612-382-1	3.47
Phosphate(1-), hexafluoro-, lithium	21324-40-3	244-334-7	10.78
Carbonic acid, ethyl methyl ester	623-53-0	613-014-2	4.22
Carbonic acid, dimethyl ester	616-38-6	210-478-4	3.14
Copper	7440-50-8	231-159-6	8.29
Aluminum	7429-90-5	231-072-3	3.67
Nickel	7440-02-0	231-111-4	1.22

**Section 4 - First Aid Measures**

**Description of first aid measures**



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天津分公司: 022-83706866	沈阳分公司: 0431-88104561	宁波分公司: 0574-87716499	广州分公司: 020-89224310
大连分公司: 0411-82160730	武汉分公司: 027-84650520	福州分公司: 0591-87219096	武汉实验室: 027-83997127
青岛分公司: 0891-7664186	济南分公司: 0531-69150670	香港分公司: 00852-29979900	厦门分公司: 0592-5568019



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**General information** No special measures required.

**After eye contact**

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

**After skin contact**

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

**After inhalation**

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

**After swallowing**

Do not induce vomiting. Get medical attention.

**Personal protective equipment for first-aid responders:** No data available.

**Most important symptoms/effects, acute and delayed:** No data available.

**Indication of immediate medical attention and special treatment needed:** No data available.

## Section 5 - Fire Fighting Measures

**Suitable extinguishing media:**

Use extinguishing agent suitable for local conditions and the surrounding environment . Such as dry powder , CO<sub>2</sub>.

**Unsuitable extinguishing media:**

No data available.

**Specific Hazards arising from the chemical:**

Special hazards arising from the substance or mixture

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium Ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C(302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

**Specific protective actions for fire-fighters:**

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

## Section 6 - Accidental Release Measures

**Personal precautions:**

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天津实验室: 022-83705866	哈尔滨实验室: 0451-88104501	宁波实验室: 0574-87316400	广州实验室: 020-89224310
武汉实验室: 027-87360730	青岛实验室: 0532-860820	杭州实验室: 0571-87219096	武汉实验室: 027-89997127
济南实验室: 0991-6683188	郑州实验室: 0371-69350670	西安实验室: 0512-62097900	厦门实验室: 0592-5568048





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Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

**Protective equipment:**

No data available.

**Emergency procedures:**

Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

**Environmental precautions:**

Do not allow material to be released to the environment without proper governmental permits.

**Methods and materials for containment and cleaning up:**

All waste must refer to the United Nations, the national and local regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Section 7 - Handling and Storage

**Precautions for safe handling:**

Consumption of food and beverage should be avoided in work areas.

Wash hands with soap and water before eating, drinking.

Ground containers when transferring liquid to prevent static accumulation and discharge.

**Information about fire and explosion protection**

Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

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

Store in a cool, dry, well-ventilated place.

**Information about storage in one common storage facility**

Keep away from heat, avoiding the long time of sunlight.

**Further information about storage conditions**

Keep container tightly sealed.

**Specific and use**

No data available.

## Section 8 - Exposure Controls/Personal Protection

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**Control parameters**

CAS No.	ACGIH	NIOSH	OSHA
12190-79-3	N/A	N/A	N/A
7782-42-5	TLV-TWA 2mg/m <sup>3</sup>	REL-TWA 2.5mg/m <sup>3</sup>	PEL-TWA 15mppcf PEL-TWA 20mppcf
1333-86-4	TLV-TWA 3.5mg/m <sup>3</sup>	REL-TWA 3.5mg/m <sup>3</sup>	PEL-TWA 3.5mg/m <sup>3</sup>
61789-96-6	N/A	N/A	N/A
21324-40-3	N/A	N/A	N/A
623-53-0	N/A	N/A	N/A
616-38-6	N/A	N/A	N/A
7440-50-8	TLV-TWA 0.2mg/m <sup>3</sup> TLV-TWA 1mg/m <sup>3</sup>	REL-TWA 1mg/m <sup>3</sup> REL-TWA 0.1mg/m <sup>3</sup>	PEL-TWA 0.1mg/m <sup>3</sup> PEL-TWA 1mg/m <sup>3</sup>
7429-90-5	TLV-TWA 10mg/m <sup>3</sup> TLV-TWA 5mg/m <sup>3</sup>	REL-TWA 2mg/m <sup>3</sup> REL-TWA 5mg/m <sup>3</sup> REL-TWA 10mg/m <sup>3</sup>	PEL-TWA 5mg/m <sup>3</sup> PEL-TWA 15mg/m <sup>3</sup>
7440-02-0	TLV-TWA 1.5mg/m <sup>3</sup>	REL-TWA 0.015mg/m <sup>3</sup>	PEL-TWA 1mg/m <sup>3</sup>

**Appropriate engineering controls:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

**Personal Protective Equipment**

**Respiratory protection:** Wear suitable protective mask in order to reduce the respiratory system. A large number of leakage, wear chemical protective clothing, including self-contained breathing apparatus.

**Hand Protection:** Wear appropriate protective gloves to reduce skin contact.

**Eyes Protection:** Wear safety goggles or eye protection combined with respiratory protection.

**Skin and Body Protection:** Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.

## Section 9 - Physical and Chemical Properties

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深圳实验室: 020-16541156

长春实验室: 0431-85150908  
哈尔滨实验室: 0451-88104561  
大连实验室: 0411-84656820  
杭州实验室: 0571-69150670

上海实验室: 021-64831999  
宁波实验室: 0574-87736199  
武汉实验室: 0571-87219096  
厦门实验室: 0512-62997900

沈阳实验室: 024-26050809  
广州实验室: 020-89283310  
西安实验室: 029-81697123  
烟台实验室: 0531-5768049



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**Information on basic physical and chemical properties**

Colour:	Black.
Physical State:	Cylindrical.
Odour:	Not available.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Explosion Limits (vol% in air):	Not available.
Vapour pressure, kPa at 20°C:	Not available.
Vapor density:	Not available.
Density/Relative density (water = 1):	Not available.
Solubility(ies):	Not available.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Other information:	
Voltage	3.7V
Electric capacity	2200mAh
Electric Energy	8.14Wh

## Section 10 - Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable.

Possibility of hazardous reactions: No data available.

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

Incompatibilities materials: Oxidizing agents, acid, base.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

## Section 11 - Toxicological Information

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上海总部: 021-64851999

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青岛总部: 0532-83706886

杭州总部: 0571-88104561

天津总部: 022-63716199

武汉总部: 020-89234116

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西安总部: 029-711-66359679

佛山总部: 0512-62997908

厦门总部: 0592-5568048

**Acute Toxicity:**

CAS No.	LC50/LD50
12190-79-3	No data available.
7782-42-5	No data available.
1333-86-4	LD50 Rat (oral): 15400mg/kg
61789-96-6	No data available.
21324-40-3	No data available.
623-53-0	No data available.
616-38-6	LD50 Rat (oral): 6400-12800mg/kg; LC50 Rat (Inhalation: Vapours) $\geq 140$ mg/L
7440-50-8	No data available.
7429-90-5	No data available.
7440-02-0	LD50 Rat (oral): $\geq 5000$ mg/kg

**Skin corrosion/irritation:** No data available.

**Serious eye damage/irritation:** No data available.

**Respiratory or Skin sensitization:** No data available.

**Germ Cell mutagenicity:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Specific target organ toxicity-Single exposure:** No data available.

**Specific target organ toxicity-Repeated exposure:** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** No data available.

**Eye:** No data available.

**Skin:** No data available.

**Ingestion:** No data available.

**Inhalation:** No data available.

## Section 12 - Ecological Information

**Ecological Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

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Other adverse effects: No data available.

### Section 13 - Disposal Considerations

Disposal methods:

Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

### Section 14 - Transport Information

UN Number	
IATA	UN3480
IMDG	UN3480
Model Regulation	UN3480
UN Proper shipping name	
IATA	Lithium ion batteries
IMDG	LITHIUM ION BATTERIES
Model Regulation	LITHIUM ION BATTERIES
Transport hazard class(es)	
IATA	9
IMDG	9
Model Regulation	9
Packing group	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
Packaging Sign	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
Environmental hazards	
Marine pollutant:	No
Special precautions for user	Not applicable.

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**Transport information:** The Lithium-ion Battery 18650 has passed the test UN38.3, according to the report ID: I04253037421D and I04253037421D-1.

According to the Packing Instruction 965 section II and 966 section II of IATA DGR 57<sup>th</sup> Edition for transportation.

According to the special provision 188 of IMDG (37-14) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (19<sup>th</sup>). The products are not subject to dangerous goods.

**Note:** Batteries weight in the package <5kg(By air, Batteries packed with equipment).

**Transport Fashion:** By air, by sea, by railway, by road.

### Section 15 - Regulatory Information

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

CAS No.	TSCA	IECSC	DSL/NDSL	EINECS/ ELINCS/ NLP
12190-79-3	Listed	Listed	Listed DSL	Listed
7782-42-5	Listed	Listed	Listed DSL	Listed
1333-86-4	Listed	Listed	Listed DSL	Listed
61789-96-6	Listed	Listed	Listed DSL	Listed
21324-40-3	Listed	Listed	Listed DSL	Listed
623-53-0	Listed	Listed	Listed DSL	Listed
616-38-6	Listed	Listed	Listed DSL	Listed
7440-50-8	Listed	Listed	Listed DSL	Listed
7429-90-5	Listed	Listed	Listed DSL	Listed
7440-02-0	Listed	Listed	Listed DSL	Listed

### Section 16 - Other Information

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Notice to reader

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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value)

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);

PC-STEL: (Permissible concentration-time weighted average);

PC-TWA: (Permissible concentration-short time exposure limit);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

IARC: (International Agency for Research on Cancer);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);

NOEC: (No observed effect concentration);

NTP: (US National Toxicology Program);

RTECS: (Registry of Toxic Effects of Chemical Substances);

IATA: (International Air Transport Association);

IMDG: (International Maritime Dangerous Goods);

TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);

TOC: (Total Organic Carbon);

TSCA: (Toxic Substances Control Act of USA);

DSL: (the Domestic Substances List of Canada);

NDSL: (the Non-domestic Substances List of Canada)

\*\*\*End of report\*\*\*