SECTION 1: Identification of the mixture and the company

1.1 Product identifier:

Coated granulated cobalt (II) carbonate 5% Co (3b304)

Contains: cobalt (II) carbonate (3b302)

1.2 Relevant identified uses of the substance and uses advised against

For animal nutrition (premixes, compound feeds)

1.3. Details of the supplier of Safety Data Sheet

ANIMA Sp. z o.o. Badania – Produkcja – Usługi
ul. Dziekanowicka 8a
31-670 Krakow, Poland
tel.: +48 12 418 26 38;
fax: +48 12 418 20 40;
e-mail: msds@anima.net.pl

1.4. Emergency telephone number

+48 12 418 26 38 (from 7 AM to 4 PM)

SECTION 2: Hazards identification

2.1. Classification of the mixture

Classification in accordance with Regulation (EC) 1272/2008 (CLP)

The mixture was classified as hazardous.

Resp. Sens. 1
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin. Sens. 1
H317 May cause an allergic skin reaction.
Muta. 2
H341 Suspected of causing genetic defects.
Carc. 1B
H350i May cause cancer by inhalation.
Repr.1B
H360F May damage fertility.
Aquatic Acute 1
H400 Very toxic to aquatic life.
Aquatic Chronic 1
H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

The mixture was labeled in accordance with Regulation (EC) 1272/2008.

Signal word **DANGER**

Hazard pictograms

GHS08

GHS09

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350i May cause cancer by inhalation.
H360F May damage fertility.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201	Obtain special instructions before use.
P261	Avoid inhaling dust.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

P273	Avoid release to the environment.
Response	
P333 + 313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P308 + P313	If exposed or concerned: Get medical advice/attention.
Disposal	
P501	Dispose of contents / container as hazardous waste.

2.3. Other hazards

The product does not contain ingredients meeting PBT or vPvB criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixture

Chemical nature: cobalt (II) carbonate diluted with dolomite (calcium magnesium carbonate).

Substance name	**Identifier**	**Classification acc. to 1272/2008**		**weight %**
cobalt (II) carbonate	Index 027-010-00-8 CAS No. 513-79-1 EC No. 208-169-4 Registration no.: 01-2119513233-54-0006	Acute Tox. 4 Carc. 1B Muta. 2 Repr. 1B Resp. Sens. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H302 H350i H341 H360F H334 H317 H400 H410	10,5 – 10,9

Comprehensive definitions of H hazard statements are provided in item 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Emergency and first-aid procedures:

Remove the affected person from the area contaminated by the product.

Inhalation:

- Remove the affected person to fresh air. Settle in comfortable position. Keep the affected person warm and calm.
- In the event of irregular breathing or no breath, administer artificial respiration. Maintain clear airway.
- Call doctor/physician immediately.

Ingestion:

- Flush mouth with water, give the affected person 2-3 glasses of water to drink. Do not induce vomiting.

Do not give anything to swallow if the affected person is unconscious.

- If necessary, transport to a hospital. Keep the affected person calm, warm and in horizontal position.

Eye contact:

- Remove contact lenses. Wash affected eyes with large volume of lukewarm water for 15 minutes, with eyelids rolled up. From time to time place the upper eyelid on the lower one.
- If necessary, call an ophtalmologist.

Skin contact:

- Remove contaminated clothing and shoes.
  Clean contaminated skin, wash with plenty of water, then wash with water and mild soap.
- In the event of a persisting skin irritation, consult a dermatologist.

4.2. Most important acute and delayed symptoms and effects of exposure

Inhalation: cough, breathing difficulty, dyspnoea.
Ingestion: stomach ache, vomiting.
Skin/eye contact: Irritation, flush.

4.3. Indications of any immediate medical attention and special treatment of the affected person.

The workplace should have available the immediate first aid measures.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media for extinguishing fire in vicinity:
dry chemical powder, water spray, carbon dioxide (CO_2), foam.
Unsuitable extinguishing media:
Not applicable.

5.2. Special hazards arising from the substance or mixture

Combustion products:
The product may decompose in high temperature, releasing hazardous gases containing cobalt oxides.
Explosive mixtures:
Not applicable.

5.3. Advice for fire-fighters

Extinguishing the fire:
Use standard methods of extinguishing chemical fires.
Containers exposed to high temperature should be cooled with water.
Remove from affected area.
Suppress vapours with water mist.
Prevent the release of fire extinguishing water into the environment.
Protective equipment for fire-fighters:
High temperature resistant clothing.
Self-contained breathing apparatuses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Ensure proper ventilation.
Avoid direct contact with the product.
Avoid creating and inhaling dust.
Persons providing help services should wear protective clothing from natural materials, protective gloves, sealing safety glasses and airway protective measures as required.
In the event of accidental release of the product, employ relevant procedures of informing local citizens and authorities, and order evacuation of third persons from the area of cleaning.

6.2. Environmental precautions

Prevent contamination of the environment.
Safeguard the inspection chambers.
In the event of a serious contamination of a waterway, sewage system or soil, notify relevant administrative and control authorities, and rescue organizations.

6.3. Methods and materials for containment and cleaning-up

Secure the damaged containers.
Ventilate the affected area, avoid inhaling dusts.
Suppress dust with water mist.
Collect the scattered mixture mechanically with industrial vacuum cleaners and absorbent materials (soil, dry sand, diatomite, vermiculite).
Place the product mass collected from the environment in an appropriate container and hand over for disposal.

6.4. References to other sections

Personal precaution: section 8
Disposal methods: section 13.

SECTION 7: Handling and storage of substances and mixtures

7.1. Precautions for safe handling

Advice for handling the mixture:
Ensure proper ventilation.
Prevent the creation of dust.
Avoid contact with eyes, skin and clothing.
Prevent release into the sewage system.
Follow the general provisions of industrial health and safety regulations.
Do not eat, drink or smoke when using this product.
Replace contaminated clothing.
Wash hands thoroughly after handling.
Wash the contaminated clothing before wearing again.
Do not remove the contaminated clothing from the workplace.
Wash hands and face before taking a break.

7.2. Conditions for safe storage, including any incompatibilities

Workrooms must be ventilated.
Container should be sealed.
Store products only in original containers.
Keep in a dry and cool place.
Keep away from heat sources.
Storage temperature: below 25℃.
Materials to avoid: acids.
After use, open containers should be carefully resealed and left in vertical position.
Handle open containers with extra care to avoid scattering.
Read and understand the Safety Data Sheet.
Read and understand all safety precautions before use.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure control/Individual protection

8.1. Control parameters

National exposure limits in work environment,
pursuant to the Regulation of the Minister of Labour and Social Policy of 6 June 2014 (Journal of Laws, item 817) on maximum permissible concentration and intensity of agents harmful to health in the working environment, as amended.

SUBSTANCE	IDENTIFIER	TLV (mg/m^3)	TLV-STEL (mg/m^3)	TLV-CL (mg/m^3)
Metallic cobalt – vapours and dusts	CAS No. 7440-48-4	0.02	-	-

Air contaminants are not released if the product is used as intended.

8.2. Exposure control

Appropriate engineering controls
Efficient ventilation in workplaces.
Use exhaust ventilation in workplaces.
Individual protection measures

Eye or face protection
Wear sealing safety glasses in accordance with PN-EN:166.
Eye showers near workplaces.
Skin protection

Hand protection
Use protective gloves – rubber, neoprene, PVC, in accordance with EN374.
Choose glove material according to breakthrough time, penetration rate and degradation.
It is recommended to change gloves on a regular basis and replace them immediately in the case of any signs of wear, damage (tear, puncture) or change in appearance (colour, flexibility, shape).
Apply protective cream on unprotected body parts.

Body protection
Protective clothing (suit). Protective footwear.

Respiratory protection
In the event of exceeding the threshold limit values, use respiratory protections with P2 filters, according to PN-EN:143.

Environmental exposure controls
Do not release into soil and ground waters. Emissions from ventilation systems and process equipment should be monitored. If required, use safeguards to limit emission levels.

General advice on occupational health and safety
Employ good personal hygiene practices.
The personal protection measures should meet the requirements set forth in the Regulation of the Minister of Economy of 21 December 2005 on the essential requirements for personal protection measures (Journal of Laws No. 259, item 2173).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Solid, colour light pinkt – grey-pink
Odour:	Odourless
Odour threshold:	Not applicable
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	No data available
Solubility(ies):	Insoluble in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	280^{o}C (for cobalt (II) carbonate)
Viscosity:	Not applicable
Explosive properties:	Not applicable
Oxidising properties:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity:
Non-reactive in recommended storage conditions.

10.2 Chemical stability

The mixture is chemically stable in recommended storage and use conditions.

10.3 Hazardous reactions:

None.

10.4 Conditions to avoid:

Avoid creation of dusts. Keep away from heat sources.

10.5 Materials to avoid:

Acids.

10.6 Hazardous decomposition products:

Decomposition does not occur if the product is stored and used as recommended.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Routes of entry:
Contact with skin or eyes, respiratory tract, digestive tract.
Acute toxicity
cobalt (II) carbonate
DL_{50} (oral, rat): 640 mg/kg
Skin corrosion/irritation:
Not found.
Serious eye damage/irritation:
May cause irritation.
Respiratory or skin sensitisation:
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Impact on respiratory tract
May cause cancer by inhalation.
Impact on digestive tract
Harmful if swallowed.
Carcinogenicity
May cause cancer by inhalation.
Reproductive genotoxicity:
May damage fertility.
Specific target organ toxicity – single exposure:
Suspected of causing genetic defects.
Specific target organ toxicity – chronic exposure:
Possible risk of irreversible effects.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.
Acute toxicity
No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in water and soil

No data available.

12.5 PBT and vPvB assessment results

The PBT/vPvB assessment was not performed, since the chemical safety assessment is not required.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste disposal methods

Do not release the product into water or sewers, do not landfill on municipal dumpsites.

Container disposal method:

Empty the contaminated containers from mixture residuals. Cleaned containers may be re-used (e.g. Big-Bags).

Containers unsuitable for cleaning should be handed over to licensed company for disposal.

Waste code

Act of 27 April 2001 on waste (Journal of Laws No. 62, item 628, as amended).

Regulation of the Minister of Environment of 27 September 2001 on the waste catalogue (Journal of Laws No. 112, item 1206).

Waste code:

16 03 03

Container waste code:

15 01 10

SECTION 14: Transport information

		ADR/RID	IMGD	IATA
14.1.	**UN-Number**	**3077**	**3077**	**3077**
14.2.	**UN proper shipping name**	**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains cobalt (II) carbonate)**		
14.3.	**Transport hazard class(es)**	**9**	**9**	**9**
	Limited Quantities	**LQ27**	**-**	**-**
	Warning label no. 9			
14.4.	**Packaging group**	**III**	**III**	**III**
14.5.	**Environmental hazards**	**yes**	**yes**	**yes**
14.6.	**Special precautions for users**	Tunnel restriction code: (E)	EMS F-A, S-F	**--**

14.7. Bulk transport in accordance with Annex II to MARPOL 73/78 and IBC Code

Not applicable.

SECTION 15: Regulatory information

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

- 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, as amended.
- Commission Regulation (EC) no. 790/2009 of 10 August 2009, amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended.
- Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Act of 25 February 2011 on chemical substances and preparations (Journal of Laws No. 63, item 322).
- Regulation of the Minister of Health of 20 April 2012 on labeling of packaging of hazardous substances and preparations and certain chemical preparations (Journal of Laws of 2012, item 445).
- Regulation of the Minister of Health of 2 September 2003 on the criteria and classification of chemical substances and preparations (Journal of Laws No. 171, item 1666); as amended on 15 October 2004 (Journal of Laws No. 243, item 2440), 4 September 2007 (Journal of Laws No. 174, item 1222) and 5 March 2009 (Journal of Laws No. 43, item 353).

- Regulation of the Minister of Labour and Social Policy of 29 November 2002 (Journal of Laws No. 217, item 1833) on maximum permissible concentration and intensity of agents harmful to health in the working environment, as amended on 10 October 2005 (Journal of Laws No. 212, item 1769), 30 August 2007 (Journal of Laws No. 161, item 1142), 16 June 2009 (Journal of Laws No. 105, item 873), 29 July 2010 (Journal of Laws No. 141, item 950) and 16 December 2011 (Journal of Laws No. 274, item 1621).
- Act of 27 April 2001 on waste (Journal of Laws No. 62, item 628, as amended).
- Regulation of the Minister of Environment of 9.12.2014 on the waste catalogue (Journal of Laws of 29.12.2014, item 1923).
- Classification of dangerous goods according to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).
- Regulation of the Minister of Labour and Social Policy of 26 September 1997 on general occupational health and safety regulations (Journal of Laws of 1997 No. 129, item 844, as amended).
- Regulation of the Minister of Health of 30 December 2004 on the occupational health and safety related to the chemical factors in the working environment (Journal of Laws of 2005 No. 11, item 86, as amended).
- Regulation of the Minister of Economy of 21 December 2005 on the essential requirements for personal protection measures (Journal of Laws No. 259, item 2173).
- COMMISSION IMPLEMENTING REGULATION (EU) No 131/2014 of 11 February 2014 amending Implementing Regulation (EU) No 601/2013 concerning the authorisation of cobalt(II) acetate tetrahydrate, cobalt(II) carbonate, cobalt(II) carbonate hydroxide (2:3) monohydrate, cobalt(II) sulphate heptahydrate and coated granulated cobalt(II) carbonate hydroxide (2:3) monohydrate as feed additives.

15.2. Chemical safety assessment

Chemical safety assessment was performed for the ingredient: cobalt (II) carbonate.

SECTION 16: Other information

Definition of H hazard phrases in section: 3

H302 Harmful if swallowed
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350i May cause cancer by inhalation.
H360F May damage fertility.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Recommended limitations of use:
Product intended only for professional use.
Training advice:
Read and understand the Safety Data Sheet before use.
Other sources of information:
Explanation of abbreviations and acronyms used in the Safety Data Sheet
CAS No. (Chemical Abstracts Service)
EC No. means one of the three numbers provided below:
EINECS – number assigned to the substance in the European Inventory of Existing Commercial Chemical Substances.
ELINCS – number assigned to the substance on the European List of Notified Chemical Substances.
(NLP) – number on the list of chemical substances "No Longer Polymers".
TLV – threshold limit value of hazardous substances in the working environment.
TLV-STEL – Threshold Limit Value – Short-term exposure limit.
TLV-CL –Threshold Limit Value – Ceiling Limit
UN-Number – Identification number of the material.
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID – Regulations Concerning International Transport of Dangerous Goods by Rail.
IMDG - International Maritime Dangerous Goods Code.
IATA – International Air Transport Association
Other sources of information
IUCLID International Uniform Chemical Information Database
ESIS European Chemical Substances Information System
ECHA Website
Other information:
The product described in the Safety Data Sheet should be stored and used in accordance with good industrial practices and an applicable provisions of the law.

The objective of the information provided in the Safety Data Sheet, based on the current state of knowledge, is to describe the product from the standpoint of legal regulations on safety, health and environmental protection. The information herein should not be understood as a warranty of properties.
The user is responsible for providing appropriate conditions for safe use of the product and shall bear full liability for consequences of improper use of this product.