

Safety data sheet

according to Regulation (EU) 2020/878

Printing date 12/12/2024

Version number 1

Revision: 12/12/2024

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

- 1.1 Product identifier

- Trade name: **BRODITEC G-29**

- 1.2 Relevant identified uses of the substance or mixture and uses advised against

Ready for use rodenticide (biocidal product-PT14)

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Zapi S.p.A.
Via Terza Strada, 12
35026 Conselve (PD) - Italy
Tel. +39 049 9597737 Fax +39 049 9597735

E-mail address of the competent person responsible for the SDS: techdept@zapi.it

- Further information obtainable from: Tech. dept.

- 1.4 Emergency telephone number: Zapi customer service (Tel. +39 049 9597737): 9:00-12:00 / 14:00-17:00

- National Poisons Information Centre: +353 (1) 809 2166; Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

STOT RE 2 H373 May cause damage to organs (blood) through prolonged or repeated exposure.

- 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



GHS08

- Signal word Warning

- Hazard-determining components of labelling:

brodifacoum

- Hazard statements

H373 May cause damage to organs (blood) through prolonged or repeated exposure.

- Precautionary statements

P260 Do not breathe dust.

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulation.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT:	
56073-10-0 brodifacoum	
PBT	Brodifacoum fulfils the P, B and T criteria.
- vPvB:	
56073-10-0 brodifacoum	
vPvB	Brodifacoum fulfils the vP criterion.

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- Determination of endocrine-disrupting properties

The mixture does not contain substances with endocrine disrupting properties in concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.

- Dangerous components:		
CAS: 56073-10-0	brodifacoum	0.0029%
EINECS: 259-980-5	Acute Tox. 1, H300 (ATE = 0.4 mg/kg bw); Acute Tox. 1, H310 (ATE = 3.16 mg/kg bw); Acute Tox. 1, H330 (ATE = 3.05 mg/m ³); Repr. 1A, H360D; STOT RE 1, H372; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	
Index number: 607-172-00-1	Specific concentration limits: Repr. 1A; H360: C ≥ 0.003 % STOT RE 1; H372: C ≥ 0.02 % STOT RE 2; H373: 0.002 % ≤ C < 0.02 %	

- **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

- **General information:** Please refer to the instructions below for each specific way of exposure.

- **After inhalation:** Supply fresh air and to be sure call for a doctor.

- **After skin contact:**

Remove contaminated clothing.
Wash skin with water and then with water and soap.
If needed, seek for medical advice.

- **After eye contact:**

Rinse eyes with eye-rinse liquid or water, keep eyelids open at least 10 minutes.
If needed, seek medical advice.

- **After swallowing:**

Rinse mouth carefully with water. Never give anything by mouth to unconscious person. Do not provoke vomiting. If swallowed, seek medical advice immediately and show the product's container or label.

Contact a veterinary surgeon in case of ingestion by a pet.

- 4.2 Most important symptoms and effects, both acute and delayed

This product contains an anticoagulant substance. If ingested, symptoms, which may be delayed, may include nosebleed and bleeding gums. In severe cases, there may be bruising and blood present in the faeces or urine.
Antidote: Vitamin K1 administered by medical/veterinary personnel only.

- 4.3 Indication of any immediate medical attention and special treatment needed

The primary treatment are the antidote therapy and the clinical assessment. Antidote: Vitamin K1 (phytomenadione). The effectiveness of the treatment should be monitored by measuring the clotting time. Do not interrupt the treatment until the clotting time is back to normality and is stable.
Poison Information: For information or to report a poisoning incident contact The National Poisons Information Centre, Beaumont Hospital, Dublin (01-809 2166), retain the label for reference.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.

- **For safety reasons unsuitable extinguishing agents:** To our knowledge, there are no unsuitable equipments.

- **5.2 Special hazards arising from the substance or mixture** In case of fire, toxic gases may be generated.

- **5.3 Advice for firefighters** Firefighters equipment in accordance with EN469 European standards.

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- Protective equipment:

Do not inhale explosion gases or combustion gases.
Firefighters equipment in accordance with EN469 European standards.

- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures**- 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.
After cleaning up, ensure adequate ventilation.
Dispose of the material collected according to regulations.

- 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.

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

Wash hands and directly exposed skin after using the product.
Wear appropriate protective gloves.
Place the product out of the reach of children, birds, pets and farm animals and other non-target animals.
Place the product away from food, drink and animal feeding stuffs, as well as from utensils or surfaces that have contact with these.
Do not smoke near the product.
When using the product, do not eat, drink or smoke.

- Information about fire - and explosion protection:

See Section 6.
See section 5.

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

Store in a dry, cool and well ventilated place. Keep the container closed and away from direct sunlight.
Store in places prevented from the access of children, birds, pets and farm animals.

- Information about storage in one common storage facility:

Place the product away from food, drink and animal feeding stuffs, as well as from utensils or surfaces that have contact with these.
When handling the product, do not contaminate food, drinks or containers meant to contain them.

- Further information about storage conditions:

Protect from frost.
Protect from humidity and water.

- 7.3 Specific end use(s) This product is a rodenticide bait for rodents' control.**SECTION 8: Exposure controls/personal protection****- 8.1 Control parameters****- Ingredients with limit values that require monitoring at the workplace:**

Propane-1,2-diol (CAS: 57-55-6):
total (vapour and particulates): 8-hour reference period: 470 mg/m³; 150 ppm
particulates: 8-hour reference period: 10 mg/m³
2,6-Ditertiary-butyl-para-cresol (CAS: 128-37-0): 8-hour reference period: 2 mg/m³
Triethanolamine (CAS: 102-71-6): 8-hour reference period: 5 mg/m³

Regulatory information: 2021 Code of Practice for the Safety, Health and Welfare at Work.

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- PNECs		
56073-10-0 brodifacoum		
Oral	PNEC	0.0000128 mg/kg bw (bird)
		0.000011 mg/kg bw (mammal)
	PNEC	0.00004 mg/l (aquatic organisms)
		>0.0038 mg/l (microorganisms)
PNEC	>0.88 mg/kg ww (soil)	
- Other exposure limit values		
56073-10-0 brodifacoum		
AEL - short term	0.0000033 mg/kg bw/d	
AEL - medium term	0.00000667 mg/kg bw/d	
AEL - long term	0.0000033 mg/kg bw/d	

- 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:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from food, drink and animal feedingstuffs.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:** Not required during normal use of the product.

- Hand protection



The product may be applied by professional and trained professional users only when appropriate chemical resistant gloves (EN 374, category III) are used.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- 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.

- 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

Not required during normal use of the product.

- Environmental exposure controls

See section 6.

- Risk management measures

Follow the above-reported directions.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Physical state	Solid
- Colour:	Red
- Odour:	Characteristic
- Odour threshold:	No data available.
- Melting point/freezing point:	No data available.

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- Boiling point or initial boiling point and boiling range	Not applicable (solid).
- Flammability	Not flammable.
- Lower and upper explosion limit	
- Lower:	No data available.
- Upper:	No data available.
- Flash point:	Not applicable (solid).
- Auto-ignition temperature:	Product is not selfigniting.
- Decomposition temperature:	No data available.
- pH	6.61 (CIPAC MT 75.3 - 1% aq.)
- Viscosity:	
- Kinematic viscosity	Not applicable.
- Dynamic viscosity:	Not applicable.
- Solubility	
- water:	Insoluble.
- Partition coefficient n-octanol/water (log value)	No data available.
- Vapour pressure:	Not applicable.
- Density and/or relative density	
- Density:	1.188 g/ml (CIPAC MT 186).
- Relative density	No data available.
- Vapour density	Not applicable.
- Particle characteristics	See section 3.
- 9.2 Other information	
- Appearance:	
- Form:	Solid
- Information with regard to physical hazard classes	
- Explosives	Not explosive
- Flammable gases	Not applicable
- Aerosols	Not applicable
- Oxidising gases	Not applicable
- Gases under pressure	Not applicable
- Flammable liquids	Not applicable
- Flammable solids	Not flammable.
- Self-reactive substances and mixtures	Not self-reactive
- Pyrophoric liquids	Not applicable
- Pyrophoric solids	Not pyrophoric
- Self-heating substances and mixtures	Not self-heating
- Substances and mixtures, which emit flammable gases in contact with water	Not applicable
- Oxidising liquids	Not applicable
- Oxidising solids	Not oxidising
- Organic peroxides	Not applicable
- Corrosive to metals	Not applicable
- Desensitised explosives	Not applicable

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Under standard handling and storing conditions, the product does not show any dangerous reaction.
- **10.2 Chemical stability** Stable at room temperature and if used as recommended.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.

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- 10.4 Conditions to avoid

Under standard handling and storing conditions, the product does not show any dangerous reaction.

- 10.5 Incompatible materials:

Store only in original container.

Given the lack of information about possible incompatibilities with other substances, it is recommended not to use it in combination with other products.

- 10.6 Hazardous decomposition products:

No dangerous decomposition products known under normal conditions of storage and use.

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:****56073-10-0 brodifacoum**

Oral	LD50	0.4 mg/kg bw (male rat and mouse)
Dermal	LD50	3.16 mg/kg bw (rat)
Inhalative	LC50/4h	3.05 mg/m ³ (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.**- Serious eye damage/irritation** Based on available data, the classification criteria are not met.**- Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**- 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.

56073-10-0 brodifacoum

developmental toxicity	Clear developmental toxicity was not observed in rabbits or rats. However, as a precaution, Brodifacoum should be considered teratogenic to humans because it contains the same chemical moiety responsible for the teratogenicity of warfarin, a known human teratogenic agent, and it has the same mode of action that is a known mechanism of teratogenicity in humans.
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- STOT-single exposure Based on available data, the classification criteria are not met.**- STOT-repeated exposure**

May cause damage to the blood through prolonged or repeated exposure.

56073-10-0 brodifacoum

Oral	NOAEL	0.04 mg/kg bw/d (rat) The study reveals that repeated oral exposure results in toxic effects: prothrombin time prolongation, kaolin-caphalin time prolongation, haemorrhage. Based on the results of the acute dermal and inhalation toxicity studies and route-to-route extrapolation, it is justified to assume a similar concern for serious damage to health by prolonged exposure through dermal and inhalation routes also.
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- Aspiration hazard Based on available data, the classification criteria are not met.**- Additional toxicological information:** No further relevant information available.**- 11.2 Information on other hazards****- Endocrine disrupting properties**

The mixture does not contain substances with endocrine disrupting properties in concentration equal to or greater than 0.1% by weight.

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SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic and/or terrestrial toxicity:	
56073-10-0 brodifacoum	
LC50/14d	(eisenia foetida) >994 mg/kg dry weight >879.6 mg/kg wet weight
ErC50/72h	0.04 mg/l (selenastrum capricornutum)
EC10/3h	>0.058 mg/l (activated sludge) Based on water solubility at pH 7 and T=20°C.
EC10/6h	>0.0038 mg/l (pseudomonas putida) Based on water solubility at pH 5.2 and T=20°C.
LC50/96h	0.042 mg/l (oncorhynchus mykiss)
LC50 (diet)	0.72 mg/kg food (laughing gull)
NOEC (reproductive toxicity)	0.0038 mg/kg food (bird)
NOEL (reproductive toxicity)	0.000385 mg/kg bw/d (bird)
LD50	0.31 mg/kg bw (mallard duck)
EC50/48h	0.25 mg/l (daphnia magna)

- 12.2 Persistence and degradability

- 12.2 Persistence and degradability	
56073-10-0 brodifacoum	
biodegradability	Not easily biodegradable. Brodifacoum will probably partition into sewage sludge/sediment due to its high log Kow and poor water solubility.
photolytic half-life	0.083 days. Degrades rapidly by photolysis.
Hydrolytic half-life	> 1 year. Stable at pH 5, 7 and 9.

- 12.3 Bioaccumulative potential

- 12.3 Bioaccumulative potential	
56073-10-0 brodifacoum	
bioconcentration factor	BCF fish = 35645 (calculated according to TGD eq. 75, using log Kow = 6.12). BCF earthworm = 15820 (calculated according to TGD ed. 82d, using log Kow = 6.12).
octanol-water partition coefficient	log Kow = 6.12 (estimated from measured Koc).

- 12.4 Mobility in soil

- 12.4 Mobility in soil	
56073-10-0 brodifacoum	
DT50	157 days. Persistent.
organic carbon partition coefficient	Koc = 9155 l/kg (pH 7,1-7.6). Immobile in soil.
soil mobility	Under basic conditions (high pH), Brodifacoum is not likely to be adsorbed onto soils or sewage sludge due to the ionisation of the molecule. Under acidic conditions (low pH), Brodifacoum is likely to be adsorbed onto soils or sewage sludge as the molecule is in its neutral or non-ionised form.

- 12.5 Results of PBT and vPvB assessment

- PBT:	
56073-10-0 brodifacoum	
PBT	Brodifacoum fulfils the P, B and T criteria.
- vPvB:	
56073-10-0 brodifacoum	
vPvB	Brodifacoum fulfils the vP criterion.

- 12.6 Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in concentration equal to or greater than 0.1% by weight.

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- 12.7 Other adverse effects
56073-10-0 brodifacoum
. The major environmental concern of Brodifacoum is primary and secondary poisoning of non-target animals.

- General notes:

Hazardous to wildlife.

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

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.

Dispose of in accordance with local requirements. At the end of the treatment dispose of uneaten bait and the packaging in accordance with EPA requirements for the disposal of hazardous waste. Use of glove is recommended.

- Uncleaned packaging:**- Recommendation:** Dispose of in accordance with local requirements.**SECTION 14: Transport information**

- 14.1 UN number or ID number	
- ADR, ADN, IMDG, IATA	Not applicable
- 14.2 UN proper shipping name	
- ADR, ADN, IMDG, IATA	Not applicable
- 14.3 Transport hazard class(es)	
- ADR, ADN, IMDG, IATA	
- Class	Not applicable
- 14.4 Packing group	
- ADR, IMDG, IATA	Not applicable
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- UN "Model Regulation":	Not applicable

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.**- Seveso category** This product is not subject to Seveso directive dispositions.**- REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

The mixture does not contain substances identified as POP.

- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

The product does not contain any substance included in annex XIV.

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30, 75**- Regulation (EU) No 649/2012 (PIC)** There are no substances listed in this regulation.**- REGULATION (EU) 2019/1148 - Explosive precursors**

The mixture does not contain explosives precursors in concentrations equal to or greater than 1%.

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- **National regulations:** No further information available.
- **Other regulations, limitations and prohibitive regulations** No further information available.,
Holder: Zapi S.p.A. Via Terza Strada, 12 - 35026 Conselve (Pd) Italia - Phone: +39 049 9597737
N° Authorisation: IE/BPA 70737
Statement of use: A ready-to-use Grain bait containing Brodifacoum (0.0029 % w/w) for use as a rodenticide by the General Public, Professional & Trained Professionals for the control of rats and mice indoors and outdoors around buildings for the protection of public health, stored products and materials.
Use Biocides Safely and Sustainably. It is illegal to use this product for uses or in a manner other than that prescribed on this label.
Trained professional users must register with DAFM as a 'Trained Professional - Pest Management Professional' (PMU) and must present their PMU No at point of sale to purchase this product for use only as specified on the label.
Professional users must present their professional number such as herd/flock number at point of sale to purchase this product for use only as specified on this label.

- **Substances of very high concern (SVHC) according to REACH, Article 59**
The mixture does not contain SVHC substances in concentration equal to or greater than 0.1% by weight.

- **Regulation (EU) n. 2024/590: substances that deplete the ozone layer**
The mixture does not contain substances that deplete the ozone layer.

- **15.2 Chemical safety assessment:**
A Chemical Safety Assessment according to Regulation (EC) No. 1907/2006 has not been carried out for the mixture.

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. Any responsibility derived from misuse of the product or in case of violation of current regulations is refused.

- Relevant phrases

H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

- Classification according to Regulation (EC) No 1272/2008

Physico-chemical hazards: the classification of the mixture is based on the criteria established by annex I, part 2, of Regulation (EC) No. 1272/2008. If relevant, the methods are reported in section 9.
Health and environmental hazards: the classification of the mixture is based on the calculation method stated in annex I, parts 3 and 4, of Regulation (CE) No. 1272/2008, using components data.

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
RD50: Respiratory Decrease, 50 percent
LC0: Lethal concentration, 0 percent
NOEC: No Observed Effect Concentration
IC50: Inhibitory concentration, 50 percent
NOAEL: No Observed Adverse Effect Level
EC50: Effective concentration, 50 percent
EC10: Effective concentration, 10 percent
AEC: Acceptable Exposure Concentration
LL0: Lethal Load, 0 percent
AEL: Acceptable Exposure Limit
LL50: Lethal Load, 50 percent
EL0: Effective Load, 0 percent
EL50: Effective Load, 50 percent
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)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 1: Acute toxicity – Category 1
Repr. 1A: Reproductive toxicity – Category 1A
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

- References

- Biocidal Products Committee (BPC) opinion June 2016 on the active substance;
- Assessment Report on the active substance (available at ECHA website);

- Sources

1. The E-Pesticide Manual 2.1 Version (2001)
2. Regulation (EC) 1907/2006 and following amendments
3. Regulation (EC) 1272/2008 and following amendments
4. Regulation (EU) 2020/878
5. Regulation (EU) 528/2012
6. Regulation (EC) 790/2009 (1st ATP CLP)
7. Regulation (EU) 286/2011 (2nd ATP CLP)
8. Regulation (EU) 618/2012 (3rd ATP CLP)
9. Regulation (EU) 487/2013 (4th ATP CLP)
10. Regulation (EU) 944/2013 (5th ATP CLP)
11. Regulation (EU) 605/2014 (6th ATP CLP)
12. Regulation (EU) 2015/1221 (7th ATP CLP)
13. Regulation (EU) 2016/918 (8th ATP CLP)
14. Regulation (EU) 2016/1179 (9th ATP CLP)
15. Regulation (EU) 2017/776 (10th ATP CLP)
16. Regulation (EU) 2018/669 (11th ATP CLP)
17. Regulation (EU) 2019/521 (12th ATP CLP)
18. Regulation (EU) 2018/1480 (13th ATP CLP)
19. Regulation (EU) 2020/217 (14th ATP CLP)
20. Regulation (EU) 2020/1182 (15th ATP CLP)
21. Regulation (EU) 2021/643 (16th ATP CLP)
22. Regulation (EU) 2021/849 (17th ATP CLP)
23. Directive 2012/18/EU (Seveso III)
24. ECHA web site