

II

(Non-legislative acts)

REGULATIONS

COMMISSION REGULATION (EU) 2022/1435

of 26 August 2022

amending Annexes II and IV to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for calcium carbonate, carbon dioxide, cyprodinil and potassium hydrogen carbonate in or on certain products

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC ⁽¹⁾, and in particular Article 5(1) and Article 14(1), point (a), thereof,

Whereas:

- (1) For cyprodinil, maximum residue levels ('MRLs') were set in Annex II to Regulation (EC) No 396/2005. Calcium carbonate, carbon dioxide and potassium hydrogen carbonate are included in Annex IV to Regulation (EC) No 396/2005.
- (2) On 14 December 2021, the Codex Alimentarius Commission adopted a new Codex maximum residue limit (CXL) for cyprodinil in soyabeans ⁽²⁾.
- (3) In accordance with Article 5(3) of Regulation (EC) No 178/2002 of the European Parliament and of the Council ⁽³⁾, where international standards exist or their completion is imminent, they are to be taken into consideration in the development or adaptation of food law, except where such standards or relevant parts would be an ineffective or inappropriate means to fulfil the legitimate objectives of food law or where there is a scientific justification, or where they would result in a different level of protection from the one determined as appropriate in the Union. Moreover, in accordance with Article 13, point (e), of that Regulation, the Union is to promote consistency between international technical standards and food law while ensuring that the high level of protection adopted in the Union is not reduced.

⁽¹⁾ OJ L 70, 16.3.2005, p. 1.

⁽²⁾ Report of the 44th Session of the Codex Alimentarius Commission (REP21/CAC) https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FMeetings%252FCX-701-44%252FFINAL%252520REPORT%252FRep21_CACe.pdf.

⁽³⁾ Regulation (EC) No 178/2002 of the European Parliament and of the Council of 28 January 2002 laying down the general principles and requirements of food law, establishing the European Food Safety Authority and laying down procedures in matters of food safety (OJ L 31, 1.2.2002, p. 1).

- (4) The European Food Safety Authority ('the Authority') assessed the CXL proposed for cyprodinil in soyabeans and concluded it is safe for consumers in the Union ⁽⁴⁾, and the Union did not present reservations ⁽⁵⁾, ⁽⁶⁾ to the Codex Committee on Pesticides Residues on this proposed CXL.
- (5) It is therefore appropriate to include this CXL in Regulation (EC) No 396/2005 as a MRL.
- (6) Calcium carbonate, carbon dioxide and potassium hydrogen carbonate were temporarily included in Annex IV to Regulation (EC) No 396/2005 pending the finalisation of their evaluation either under Council Directive 91/414/EEC ⁽⁷⁾ or under Regulation (EC) No 1107/2009 ⁽⁸⁾ of the European Parliament and of the Council, and pending their review according to Article 12 of Regulation (EC) No 396/2005. In the context of applications for renewal of the approval of these substances under Regulation (EC) No 1107/2009, the Authority issued conclusions on the peer review of the pesticide risk assessment of calcium carbonate ⁽⁹⁾, carbon dioxide ⁽¹⁰⁾ and potassium hydrogen carbonate ⁽¹¹⁾. Based on the said conclusions of the Authority, no MRLs are required for calcium carbonate, carbon dioxide and potassium hydrogen carbonate. Therefore, it is appropriate for these substances to remain in Annex IV to Regulation (EC) No 396/2005 ⁽¹²⁾.
- (7) Based on the scientific report and on the conclusions of the Authority and taking into account the factors relevant to the matter under consideration, the appropriate modifications to the MRLs fulfil the requirements of Article 14(2) of Regulation (EC) No 396/2005.
- (8) Regulation (EC) No 396/2005 should therefore be amended accordingly.
- (9) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

Annexes II and IV to Regulation (EC) No 396/2005 are amended in accordance with the Annex to this Regulation.

Article 2

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

⁽⁴⁾ Scientific support for preparing an EU position for the 52nd Session of the Codex Committee on Pesticide Residues (CCPR). EFSA Journal 2021;19(8):6766.

⁽⁵⁾ European Union comments on Codex CX/PR 21/52/5(REV): https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FMeetings%252FCX-718-52%252FCRDs%252Fpr52_CRD22x.pdf

⁽⁶⁾ Report of the 52nd session of the Codex Committee on Pesticide Residues REP21/PR: https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FMeetings%252FCX-718-52%252FREPORT%252FFINAL%252FBREPORT%252FREP21_PR52e.pdf

⁽⁷⁾ Council Directive 91/414/EEC of 15 July 1991 concerning the placing of plant protection products on the market (OJ L 230, 19.8.1991, p. 1).

⁽⁸⁾ Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 Concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC (OJ L 309, 24.11.2009, p. 1).

⁽⁹⁾ EFSA (European Food Safety Authority), 2021. Conclusion on the peer review of the pesticide risk assessment of the active substance calcium carbonate. EFSA Journal 2021;19(4):6500.

⁽¹⁰⁾ EFSA (European Food Safety Authority), 2021. Conclusions on the peer review of the pesticide risk assessment of the active substance carbon dioxide. EFSA Journal 2021;19(6):6605.

⁽¹¹⁾ EFSA (European Food Safety Authority), 2021. Conclusion on the peer review of the pesticide risk assessment of the active substance potassium hydrogen carbonate. EFSA Journal 2021;19(5):6593.

⁽¹²⁾ EFSA (European Food Safety Authority), 2022. Statement on pesticide active substances that do not require a review of the existing maximum residue levels under Article 12 of Regulation (EC) No 396/2005. EFSA Journal 2022; 20(01):7061.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 26 August 2022.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX

Annexes II and IV to Regulation (EC) No 396/2005 are amended as follows:

(1) in Annex II, the column for cyprodinil is replaced by the following:

'ANNEX II

Pesticide residues and maximum residue levels (mg/kg)

Code number	Groups and examples of individual products to which the MRLs apply ⁽¹⁾	Cyprodinil (R) (F)
0100000	FRUITS, FRESH or FROZEN; TREE NUTS	
0110000	Citrus fruits	0,02 *
0110010	Grapefruits	
0110020	Oranges	
0110030	Lemons	
0110040	Limes	
0110050	Mandarins	
0110990	Others (2)	
0120000	Tree nuts	
0120010	Almonds	0,02 *(+)
0120020	Brazil nuts	0,04
0120030	Cashew nuts	0,04
0120040	Chestnuts	0,04
0120050	Coconuts	0,04
0120060	Hazelnuts/cobnuts	0,04
0120070	Macadamias	0,04
0120080	Pecans	0,04
0120090	Pine nut kernels	0,04
0120100	Pistachios	0,02 *
0120110	Walnuts	0,04
0120990	Others (2)	0,04
0130000	Pome fruits	2
0130010	Apples	
0130020	Pears	
0130030	Quinces	
0130040	Medlars	
0130050	Loquats/Japanese medlars	
0130990	Others (2)	

0140000	Stone fruits	2
0140010	Apricots	
0140020	Cherries (sweet)	
0140030	Peaches	
0140040	Plums	
0140990	Others (2)	
0150000	Berries and small fruits	
0151000	(a) grapes	3
0151010	Table grapes	
0151020	Wine grapes	
0152000	(b) strawberries	5
0153000	(c) cane fruits	
0153010	Blackberries	3
0153020	Dewberries	0,02 *
0153030	Raspberries (red and yellow)	3
0153990	Others (2)	0,02 *
0154000	(d) other small fruits and berries	
0154010	Blueberries	8
0154020	Cranberries	8
0154030	Currants (black, red and white)	8
0154040	Gooseberries (green, red and yellow)	8
0154050	Rose hips	3
0154060	Mulberries (black and white)	3
0154070	Azaroles/Mediterranean medlars	3
0154080	Elderberries	3
0154990	Others (2)	3
0160000	Miscellaneous fruitswith	
0161000	(a) edible peel	
0161010	Dates	0,02 *
0161020	Figs	0,02 *
0161030	Table olives	0,02 *
0161040	Kumquats	0,02 *
0161050	Carambolas	0,02 *
0161060	Kaki/Japanese persimmons	2
0161070	Jambuls/jambolans	0,02 *
0161990	Others (2)	0,02 *
0162000	(b) inedible peel, small	0,02 *
0162010	Kiwi fruits (green, red, yellow)	
0162020	Litchis/lychees	
0162030	Passionfruits/maracujas	

0162040	Prickly pears/cactus fruits	
0162050	Star apples/cainitos	
0162060	American persimmons/Virginia kaki	
0162990	Others (2)	
0163000	(c) inedible peel, large	
0163010	Avocados	1
0163020	Bananas	0,02 *
0163030	Mangoes	0,02 *
0163040	Papayas	0,02 *
0163050	Granate apples/pomegranates	5
0163060	Cherimoyas	0,02 *
0163070	Guavas	1,5
0163080	Pineapples	0,02 *
0163090	Breadfruits	0,02 *
0163100	Durians	0,02 *
0163110	Soursops/guanabanas	0,02 *
0163990	Others (2)	0,02 *
0200000	VEGETABLES, FRESH or FROZEN	
0210000	Root and tuber vegetables	
0211000	(a) potatoes	0,02 *
0212000	(b) tropical root and tuber vegetables	0,02 *
0212010	Cassava roots/manioc	
0212020	Sweet potatoes	
0212030	Yams	
0212040	Arrowroots	
0212990	Others (2)	
0213000	(c) other root and tuber vegetables except sugar beets	
0213010	Beetroots	1,5
0213020	Carrots	1,5
0213030	Celeriacs/turnip rooted celeries	0,3
0213040	Horseradishes	1,5
0213050	Jerusalem artichokes	0,02 *
0213060	Parsnips	1,5
0213070	Parsley roots/Hamburg roots parsley	1,5
0213080	Radishes	0,3
0213090	Salsifies	1,5
0213100	Swedes/rutabagas	0,02 *
0213110	Turnips	0,02 *
0213990	Others (2)	0,02 *

0220000	Bulb vegetables	
0220010	Garlic	0,07
0220020	Onions	0,3
0220030	Shallots	0,07
0220040	Spring onions/green onions and Welsh onions	0,8
0220990	Others (2)	0,02 *
0230000	Fruiting vegetables	
0231000	(a) Solanaceae and Malvaceae	
0231010	Tomatoes	1,5
0231020	Sweet peppers/bell peppers	1,5
0231030	Aubergines/eggplants	1,5
0231040	Okra/lady's fingers	0,02 *
0231990	Others (2)	0,02 *
0232000	(b) cucurbits with edible peel	0,5
0232010	Cucumbers	
0232020	Gherkins	
0232030	Courgettes	
0232990	Others (2)	
0233000	(c) cucurbits with inedible peel	0,6
0233010	Melons	
0233020	Pumpkins	
0233030	Watermelons	
0233990	Others (2)	
0234000	(d) sweet corn	0,02 *
0239000	(e) other fruiting vegetables	0,02 *
0240000	Brassica vegetables(excluding brassica roots and brassica baby leaf crops)	
0241000	(a) flowering brassica	2
0241010	Broccoli	
0241020	Cauliflowers	
0241990	Others (2)	
0242000	(b) head brassica	
0242010	Brussels sprouts	0,02 *
0242020	Head cabbages	0,7
0242990	Others (2)	0,02 *
0243000	(c) leafy brassica	0,02 *
0243010	Chinese cabbages/pe-tsai	
0243020	Kales	
0243990	Others (2)	

0244000	(d) kohlrabies	0,02 *
0250000	Leaf vegetables, herbs and edible flowers	
0251000	(a) lettuces and salad plants	15
0251010	Lamb's lettuces/corn salads	
0251020	Lettuces	
0251030	Escaroles/broad-leaved endives	
0251040	Cresses and other sprouts and shoots	
0251050	Land cresses	
0251060	Roman rocket/rucola	
0251070	Red mustards	
0251080	Baby leaf crops (including brassica species)	
0251990	Others (2)	
0252000	(b) spinaches and similar leaves	15
0252010	Spinaches	
0252020	Purslanes	
0252030	Chards/beet leaves	
0252990	Others (2)	
0253000	(c) grape leaves and similar species	0,02 *
0254000	(d) watercresses	0,02 *
0255000	(e) witloofs/Belgian endives	0,06
0256000	(f) herbs and edible flowers	40
0256010	Chervil	
0256020	Chives	
0256030	Celery leaves	
0256040	Parsley	
0256050	Sage	
0256060	Rosemary	
0256070	Thyme	
0256080	Basil and edible flowers	
0256090	Laurel/bay leaves	
0256100	Tarragon	
0256990	Others (2)	
0260000	Legume vegetables	
0260010	Beans (with pods)	2
0260020	Beans (without pods)	0,08
0260030	Peas (with pods)	2
0260040	Peas (without pods)	0,08
0260050	Lentils	0,2
0260990	Others (2)	0,02 *

0270000	Stem vegetables	
0270010	Asparagus	0,02 *
0270020	Cardoons	0,02 *
0270030	Celeries	30
0270040	Florence fennels	4
0270050	Globe artichokes	4
0270060	Leeks	0,02 *
0270070	Rhubarbs	2
0270080	Bamboo shoots	0,02 *
0270090	Palm hearts	0,02 *
0270990	Others (2)	0,02 *
0280000	Fungi, mosses and lichens	0,02 *
0280010	Cultivated fungi	
0280020	Wild fungi	
0280990	Mosses and lichens	
0290000	Algae and prokaryotes organisms	0,02 *
0300000	PULSES	
0300010	Beans	0,2
0300020	Lentils	0,02 *
0300030	Peas	0,1
0300040	Lupins/lupini beans	0,1
0300990	Others (2)	0,02 *
0400000	OILSEEDS AND OIL FRUITS	
0401000	Oilseeds	
0401010	Linseeds	0,02 *
0401020	Peanuts/groundnuts	0,02 *
0401030	Poppy seeds	0,02 *
0401040	Sesame seeds	0,02 *
0401050	Sunflower seeds	0,02 *
0401060	Rapeseeds/canola seeds	0,02
0401070	Soyabeans	0,3
0401080	Mustard seeds	0,02 *
0401090	Cotton seeds	0,02 *
0401100	Pumpkin seeds	0,02 *
0401110	Safflower seeds	0,02 *
0401120	Borage seeds	0,02 *
0401130	Gold of pleasure seeds	0,02 *
0401140	Hemp seeds	0,02 *

0401150	Castor beans	0,02 *
0401990	Others (2)	0,02 *
0402000	Oil fruits	0,02 *
0402010	Olives for oil production	
0402020	Oil palms kernels	
0402030	Oil palms fruits	
0402040	Kapok	
0402990	Others (2)	
0500000	CEREALS	
0500010	Barley	4
0500020	Buckwheat and other pseudocereals	0,02 *
0500030	Maize/corn	0,02 *
0500040	Common millet/proso millet	0,02 *
0500050	Oat	4
0500060	Rice	0,02 *
0500070	Rye	0,5
0500080	Sorghum	0,02 *
0500090	Wheat	0,5
0500990	Others (2)	0,02 *
0600000	TEAS, COFFEE, HERBAL INFUSIONS, COCOA AND CAROBS	
0610000	Teas	0,1 *
0620000	Coffee beans	0,1 *
0630000	Herbal infusions from	
0631000	(a) flowers	0,1 *
0631010	Chamomile	
0631020	Hibiscus/roselle	
0631030	Rose	
0631040	Jasmine	
0631050	Lime/linden	
0631990	Others (2)	
0632000	(b) leaves and herbs	0,1 *
0632010	Strawberry	
0632020	Rooibos	
0632030	Mate/maté	
0632990	Others (2)	
0633000	(c) roots	1,5(+)
0633010	Valerian	(+)

0633020	Ginseng	(+)
0633990	Others (2)	(+)
0639000	(d) any other parts of the plant	0,1 *
0640000	Cocoa beans	0,1 *
0650000	Carobs/Saint John's breads	0,1 *
0700000	HOPS	0,1 *
0800000	SPICES	
0810000	Seed spices	0,1 *
0810010	Anise/aniseed	
0810020	Black caraway/black cumin	
0810030	Celery	
0810040	Coriander	
0810050	Cumin	
0810060	Dill	
0810070	Fennel	
0810080	Fenugreek	
0810090	Nutmeg	
0810990	Others (2)	
0820000	Fruit spices	0,1 *
0820010	Allspice/pimento	
0820020	Sichuan pepper	
0820030	Caraway	
0820040	Cardamom	
0820050	Juniper berry	
0820060	Peppercorn (black, green and white)	
0820070	Vanilla	
0820080	Tamarind	
0820990	Others (2)	
0830000	Bark spices	0,1 *
0830010	Cinnamon	
0830990	Others (2)	
0840000	Root and rhizome spices	
0840010	Liquorice	1,5(+)
0840020	Ginger (10)	
0840030	Turmeric/curcuma	1,5(+)
0840040	Horseradish (11)	
0840990	Others (2)	1,5(+)

0850000	Bud spices	0,1 *
0850010	Cloves	
0850020	Capers	
0850990	Others (2)	
0860000	Flower pistil spices	0,1 *
0860010	Saffron	
0860990	Others (2)	
0870000	Aril spices	0,1 *
0870010	Mace	
0870990	Others (2)	
0900000	SUGAR PLANTS	0,02 *
0900010	Sugar beet roots	
0900020	Sugar canes	
0900030	Chicory roots	
0900990	Others (2)	
1000000	PRODUCTS OF ANIMAL ORIGIN -TERRESTRIAL ANIMALS	
1010000	Commodities from	(+)
1011000	(a) swine	0,02 *(+)
1011010	Muscle	(+)
1011020	Fat	(+)
1011030	Liver	(+)
1011040	Kidney	(+)
1011050	Edible offals (other than liver and kidney)	(+)
1011990	Others (2)	(+)
1012000	(b) bovine	
1012010	Muscle	0,02 *(+)
1012020	Fat	0,02 *(+)
1012030	Liver	0,05(+)
1012040	Kidney	0,05(+)
1012050	Edible offals (other than liver and kidney)	0,02 *(+)
1012990	Others (2)	0,02 *(+)
1013000	(c) sheep	
1013010	Muscle	0,02 *(+)
1013020	Fat	0,02 *(+)
1013030	Liver	0,05(+)
1013040	Kidney	0,05(+)
1013050	Edible offals (other than liver and kidney)	0,02 *(+)
1013990	Others (2)	0,02 *(+)

1014000	(d) goat	
1014010	Muscle	0,02 *(+)
1014020	Fat	0,02 *(+)
1014030	Liver	0,05(+)
1014040	Kidney	0,05(+)
1014050	Edible offals (other than liver and kidney)	0,02 *(+)
1014990	Others (2)	0,02 *(+)
1015000	(e) equine	
1015010	Muscle	0,02 *(+)
1015020	Fat	0,02 *(+)
1015030	Liver	0,05(+)
1015040	Kidney	0,05(+)
1015050	Edible offals (other than liver and kidney)	0,02 *(+)
1015990	Others (2)	0,02 *(+)
1016000	(f) poultry	0,02 *(+)
1016010	Muscle	(+)
1016020	Fat	(+)
1016030	Liver	(+)
1016040	Kidney	
1016050	Edible offals (other than liver and kidney)	(+)
1016990	Others (2)	(+)
1017000	(g) other farmed terrestrial animals	
1017010	Muscle	0,02 *(+)
1017020	Fat	0,02 *(+)
1017030	Liver	0,05(+)
1017040	Kidney	0,05(+)
1017050	Edible offals (other than liver and kidney)	0,02 *(+)
1017990	Others (2)	0,02 *(+)
1020000	Milk	0,02 *(+)
1020010	Cattle	(+)
1020020	Sheep	(+)
1020030	Goat	(+)
1020040	Horse	
1020990	Others (2)	
1030000	Birds eggs	0,02 *(+)
1030010	Chicken	(+)
1030020	Duck	(+)
1030030	Geese	(+)

1030040	Quail	(+)
1030990	Others (2)	(+)
1040000	Honey and other apiculture products (7)	0,05 *
1050000	Amphibians and Reptiles	0,02 *
1060000	Terrestrial invertebrate animals	0,02 *
1070000	Wild terrestrial vertebrate animals	0,02 *
1100000	PRODUCTS OF ANIMAL ORIGIN - FISH, FISHPRODUCTS AND ANY OTHER MARINE AND FRESHWATER FOOD PRODUCTS (8)	
1200000	PRODUCTS OR PART OF PRODUCTS EXCLUSIVELY USED FOR ANIMAL FEED PRODUCTION (8)	
1300000	PROCESSED FOOD PRODUCTS (9)	

(*) Indicates lower limit of analytical determination

(†) For the complete list of products of plant and animal origin to which MRL's apply, reference should be made to Annex I

Cyprodinil (R) (F)

(R) The residue definition differs for the following combinations pesticide-code number: Cyprodinil - code 1000000 except 1020000, 1040000: Cyprodinil (sum of cyprodinil and CGA 304075 (free), expressed as cyprodinil)

Cyprodinil-1020000: Cyprodinil (Sum of cyprodinil and CGA 304075 (free and conjugated), expressed as cyprodinil)

(F) Fat soluble The European Food Safety Authority identified some information on analytical and/or confirmatory methods as unavailable. When re-viewing the MRL, the Commission will take into account the information referred to in the first sentence, if it is submitted by 14 March 2017, or, if that information is not submitted by that date, the lack of it.

0120010 Almonds

0633000 (c) roots

0633010 Valerian

0633020 Ginseng

0633990 Others (2)

0840010 Liquorice

0840030 Turmeric/curcuma

0840990 Others (2)

1000000 PRODUCTS OF ANIMAL ORIGIN - TERRESTRIAL ANIMALS

1010000 Commodities from

1011000 (a) swine

1011010 Muscle

1011020 Fat

1011030 Liver

1011040 Kidney

1011050 Edible offals (other than liver and kidney)

1011990 Others (2)

1012000 (b) bovine

1012010 Muscle

1012020 Fat

1012030 Liver

1012040 Kidney

1012050 Edible offals (other than liver and kidney)

1012990 Others (2)

1013000 (c) sheep

1013010 Muscle

1013020 Fat

1013030 Liver

1013040 Kidney

1013050 Edible offals (other than liver and kidney)

1013990 Others (2)

1014000 d) goat

1014010 Muscle

1014020 Fat

1014030 Liver

1014040 Kidney

1014050 Edible offals (other than liver and kidney)
1014990 Others (2)
1015000 (e) equine
1015010 Muscle
1015020 Fat
1015030 Liver
1015040 Kidney
1015050 Edible offals (other than liver and kidney)
1015990 Others (2)
1016000 (f) poultry
1016010 Muscle
1016020 Fat
1016030 Liver
1016050 Edible offals (other than liver and kidney)
1016990 Others (2)
1017000 (g) other farmed terrestrial animals
1017010 Muscle
1017020 Fat
1017030 Liver
1017040 Kidney
1017050 Edible offals (other than liver and kidney)
1017990 Others (2)
1020000 Milk
1020010 Cattle
1020020 Sheep
1020030 Goat
1030000 Birds eggs
1030010 Chicken
1030020 Duck
1030030 Geese
1030040 Quail
1030990 Others (2)

- (2) in Annex IV, the entries for 'calcium carbonate⁽¹⁾', 'carbon dioxide⁽¹⁾' and 'potassium hydrogen carbonate⁽¹⁾' are replaced by 'calcium carbonate', 'carbon dioxide' and 'potassium hydrogen carbonate', respectively.
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