Two obstacles havo presented thomselves to its prompt intreduction into goneral uso. The first is the source of supply, and the second the name.

Since the chloride of aluminum has never beon a commercial article, and it was important to securo large quantities at a noderate price, la alf a ton was first mado to detormine the best mothod of production. Supplics can now bo insured at a cost not exceeding that of the poisonous claloride of zinc, and below that of carbolic acid-indeed, so far bolow carbolic acid that it must supersede this where disinfectints are used in abundance-to water streets, closets, alloys, etc.g which aro now often redolent of the tar acid odor, that by no meais finds favor in every household.

Secondly, as to the name. An antiseptic and disinfectant of such a character as this non-poisonous chloride, cannot be too widely used. That a long scientific mame is an objection in a commercial point of view, and attended with great inconvenience, every one will admit. Carbolic acid isEusually termed "carbonic" acid by the people, and every chemist is called upon daily to check popular blunders in nansing articles asked for across the counter. I recently heard a respectable youth ask a dispensing clerk for "erorescing," and I was astonished to seo a bottle of efiervescing citrate of magnesis opened to supply the demand. I have consulted several medical friends and chemists as to the best popular name for the liydrated chloride of aluminum, and after many fruitless efforts, have determined on calling it " chloralum." Iam aware of the objections to be raised to this, but since I scarched for a singlo word whereby to designsto it, ono that vould, in some sense, iadicate the nature of the compound, and at the same time be quite nerv, I have resolved to adhero to a name which, like telegram, may become popular in spite of classical objectors.

All this matter of business may seem irrelovant; but only those who have happened to introduce somo novelty are aware of the insurmountable barriers whicle present themselves in commerce.

And now, referring to the more pleasaut part of my revelations-the results of experi-ments-it is not unimportant to state, that in January last I lad to pay from 12s. to 24 s . per pound for small quantities of the chluride to bo found in:tho shops of manufacturing chemists in London. I did hear that the Messrs. Bell, of Nerreastle, had supplied the anhydrous chloride to be mixed with size by Manchester cluth dressers; but, on applicition to this firm, I was told they had discontinined tho manufacture of the metal, and, thercfore, liad none of tho chloride. With the small quantities I could find, anuountins in the whole to less than a couple of pounds, I made solutions of nuch greater strength mersed raw hide, meat, the feot of cattle cut off at the knee, rough fat, and other agents, for rarions periods, varying from a fen minutes to twenty-fuar liours. The result was absolute preservation, and, what is mure astonishing, after keoping these specimens up to tho present time, Ifind no insects attack. ing them, as in the caso of other means of preservation, even with arseniates.
Mreat dipped in solution of 1.030 lo 1.010 specific gravity, had a strung astringent lavor; but a retricver dos did not object to make a daily meal of Ilesh thus preserved,
and thrived well on it. I know from provious work that the chloride was non-poisonous but I reponted my experiments to satisfly myself on the point, and then commenced preserving fish. I tried large quantities of place, soles, cod, whiting, mackerel, haddocks, mullet, and other kinds. Somo wero bought when far from fresh, and a dyp purified them and arrested decomposition. A fisbby cod, of suspicious appearance, becane firm, nud was good e.ting after a day's 1 m mersion. We had the least success with the mackerel and mullet, nud, as a rule, none with the tish that lad not been cleansed.

Mr. Frank Buckland anded ne ma procuring salmon from Thurso, Aberdeen, and Galway,
dipped in the solution, when caught, and sent up to London without ice. All the fish arrived in good order, and kept several days. A sea tront was dipped in tho solution in Aberdeen, exposed to $80^{\circ}$ for thirty hours, and then sent up in a box. Mr. Buckland and Mr. Brudenell Carter tasted tho fish, and coincided in the judgment termed of it in my lrouschold. The trout was firm and of excellent flavor, and, in both respects, contrasted favorably with salmon that had been transpurted in ice. The result of these experiments was, that the fish would bear immersion for five or six days. The scales softened, and the flavor was somewhat affected by longer immersions. Shees of fish were apt to discolor and lose their flavor in a much shorter time than whole fish; but a salmon split in two would dry slowly and prove good eatmr many days after being caught. As an aid in the drying of cod on the Newfoundland coast and elsewhere, a mild solution of the chloride would be invaluable, since thonsands of thas of fish have to be thrown away, when cought in abundance, because they can not be dried fast enough.
The chloride of aluminum is a delaquescent salt; but it has a tendency to part with its chlorine, and thens no obstaclo is efferca to the drying of the fish. These crperments show how safe an agent chloralnm is, and every medical man cin appreciate on the innportance of having an inofiensive agent to be used in tho sinks, dust-holes, and accumulations of filth and garbage int and around kitchens. A rad on the dust-holes and dustpans is, probably, nert in importance to the disposal and disinfection of serrago, and physicians have never had an antiseptic at thear disposal which could safely be used in the dirtiest corners of most dwellings.

For ordinary disinfecting purpuses, sulntions varying from i.6ic to 1.010 specitic grivity, are quite strong. Stronger solutio:s are usually umnecessary, and impart flarur to ediblo substances.

Any one why wishes to try a convincins experinent as to the value of chloralum, should drup some in strong scrrago rater. The solid matter is precipitated more rapidly than by the use of a persalt of iron, and the odor disappears. I an quate satisticd that it will and those who are attemptung to deal with the sewage of towns by combined nechnmeal and chemical mentis when irrigation is ampracticable. It has ono ereat virtue, which Dr. Budd, in is letter to mysclf, says must belong to " the antiseptic of the future," viz.: that it is quate harmless to vegedtion. The chlorine combun:cs with ammonia and other bases, and alumina is deposited with the solid organic clements. In the dead house, the dissecting room,
musem laboratory, chluralum will be found invaluablo.
It is most important to increase the number of agents available for samitary purposes. The destruction of animal poisons, so much neglected a few years since, marks an epoch in medncial hastory wheln is in pleasant contrast to the days of long prescriptions and infalliblo cures. Cattle-plagne times, fortumately, brought into fashon the stamping out of a malygunt contagia, and, for this purpuse, a good antiseptic, which cannot do harm, offend the most delicate nose, nor soil the finest limen, is a great desideratum.

1 have striven to show, for years past, that we lave it very distinct and destructive group of diseases in ammals-the epizootics proper-propagated through timo and spaco by contagion. Wherever these expizootics $a_{i}$ pear, antiseptics are of great value to destroy the virus as it is thrown off by tho sick animals. All excreta suould bo disinfected, and all agents whech are at all likely to be contaminated by the breath or discharges.

In the contagious pleuro-pheumonia I noted, some years since, that mild case3 are controlled, and even cured, by astringent preparations, such as the sesquichloride of ron, and in the earliest stages of exudation, the mternal use of chlowalum would tend to limit the disease. It must be understuod that 1 do not advocate treating cases of pleu-ro-phoumonia, except whon special circumstances render it vely desirable to do so. As a rule, the animals do best without medicine, but the carly exudation occurs rapidly, much in the same way as hemorrhage and hemostatic propertics of the chlorides of iron and aluminum render guod service.

In the foot and mouth discase, which should never be permitted to reach our farms, a chloralum solution checks the discharge, destroys the virus, favors the cicatrization of ulcers and may vo regarded as the best remedy to be used.
In conclusion, I wish to direct the attention of surgeons to the use of the hydrated chloride of aluminum in the treatment of vounds, erysipelas, gangrene, and rarious contrigious inllammatory diseases of the superficial lats, such as the cuntagious ophinahuria of claidren, suldiers, ete. In forer wards, and every sich chamber, garoles and lutions cuntaining it will frequently be found of use, atid linen ann bo dipped in solution of it bufore semonal frum the sick chan ber. It is a powerful styptic, and, in the treatment of chawhic and , weute Mishiarges, hemoralage, cic., it is ufoco.t valace. It is sufficient to have drawn attention to this subject, to insure the multiphintion of cipuriments; and the more the new compomal is tried, the Leticr will it ha nurediated.

## Poisonous Iflets of Carbo.ic Acia.

The Didinbugh arclicul Xumrnuisays. Professus Buraluwial fubsil that when externally applical in sus onc! c.abes calulic acid was ivisurised, and anici luisumbialy in about 1 case 10 10. This puibatand actiun was revealed, oftel:, sp catly an the secund daj, by a peculiar fifect vat the ariac which, pile at Girsi, beconces otalualiy dadect, on standing. No albumen, was fresent in th.o i:xiat, but the patiexits lust arpetito and strusth, Ho recumments as a substit:ite the sulphocarbolate of zine, first employed by Wnesd. Mr. Lister states that he lizs nerer olseered the

