



DERIVADOS DEL FLUOR
Minersa Group

2020

Environmental, Health and Safety report



| Presentación

Derivados del Flúor (DDF) is the European leader in the field of manufacturing and distribution of **hydrofluoric acid and other inorganic fluorides**, due to its capacity, know-how and expertise.

Being part of **MINERSA mining Group**, one of the main fluorspar producers worldwide, guarantees a secure and stable supply of this strategic raw material to DDF for the production of **hydrofluoric acid**. In this way, vertical integration is achieved within the Group, from the mineral extraction stage to the production and supply of inorganic fluorides and anhydrite.

Our products are used in a very wide range of different essential applications for daily life: refrigeration, air conditioning, special polymers for the chemical industry, manufacture of waterproof and breathable fabrics, aluminum, glass matting, solar panels, semiconductors, glass, ceramics, nuclear industry, petroleum refining, steel stainless steel, self-leveling floors, etc.

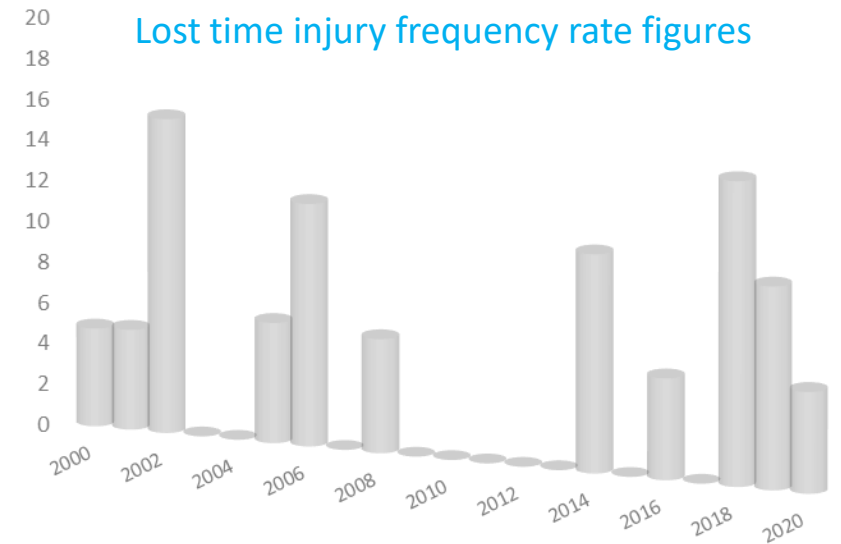
The present Environmental, Health and Safety report includes the main guidelines and activity indicators of DDF in recent years, including the results for 2020.



Practices in relation to occupational health and safety

Derivados del Flúor's occupational health and safety management system is certified under the requirements of the ISO 45001 standard, which has enabled a downward trend in the frequency of accidents with sick leave (number of accidents per million hours worked) throughout years.

This working method applies to both, own and subcontracted employees.



Process safety and emergency preparedness and response

DDF includes within its action protocols those derived from compliance with Royal Decree 840/2015 on Serious Accidents, colloquially called Seveso III.

These actions are aimed at preventing fires, explosions and accidental emissions of chemical products. To this end, DDF is governed by the principle of operating the installations properly, as well as maintaining and reviewing them to ensure their correct operating condition.

There is also an Internal Emergency Plan or Self-Protection Plan on which annual drills are carried out and DDF has collaborated with the competent authority in the preparation of the External Emergency Plan (PEE) and in carrying out drills, the last of which was carried out in 2020.



Product and distribution stewardship

The concept of "Stewardship" aims to ensure that the products used, supplied or manufactured do not present risks to people and the environment. For this, all the life cycle of the product is covered, from its design to its disposal.

Derivados del Flúor supports and advises customers and downstream users on how to store, handle and dispose each product in the most correct and safe way. Additionally, regular communications with the local community bring the industrial reality closer to society as a whole.

The final target is to minimize the potential risks involved in the distribution of chemical products throughout the entire supply chain: carrier, distributor, contractor, logistics operator and the community in general.

Derivados del Fluor is actively engaged at the European level within the CTEF-STs (European Technical Committee for Fluorine-Storage Transport and Safety) working group, that develops recommendations on storage, transport and safe handling of hydrofluoric acid.

Environmental protection

The Environmental Management system of Derivados del Flúor is certified according to the requirements of the ISO 14001:2004 standard since year 2000.

The most significant environmental impacts occur due to:

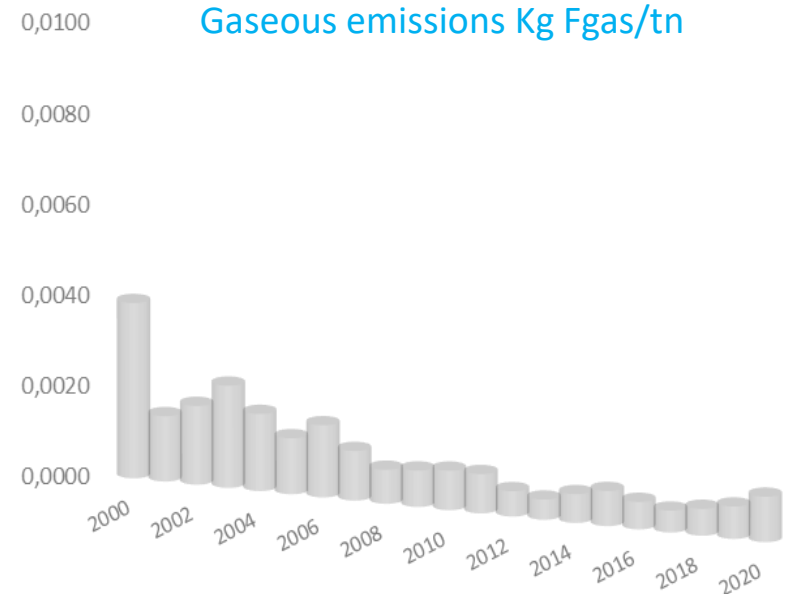
- channeled atmospheric emissions from the process equipment or purifiers themselves, in which the main pollutants are fluoride and solid particles.
- the wastewater that is treated in the treatment plant itself, before being discharged into the sea.
- the production of solid waste.
- the use of natural resources.



Gaseous emissions

The continuous reduction of emissions has acquired an asymptotic character over time, due to the application of the best available techniques (BAT) for the manufacturing process of Hydrofluoric Acid and its fluorinated derivatives.

Gaseous emissions Kg Fgas/tn



Waste waters

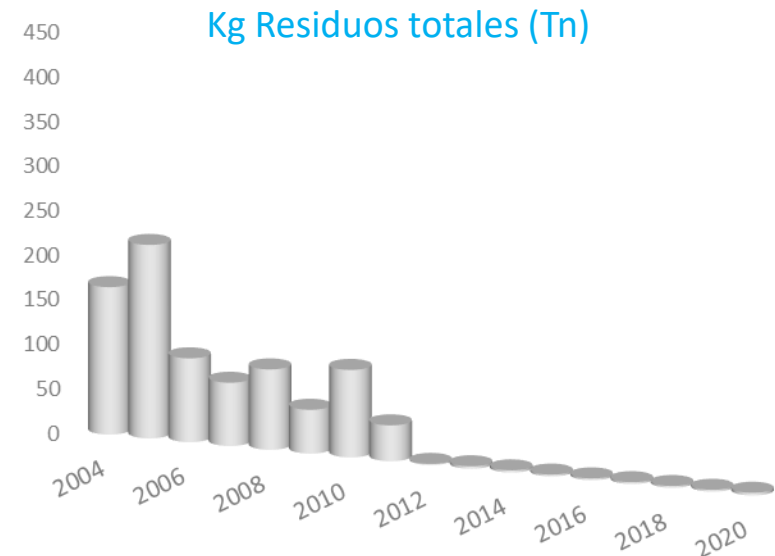
Controls to follow up treated wastewater are carried out by DDF laboratory itself and they are also contrasted with an accredited external laboratory.

Regional environmental authorities also carry out random inspections throughout each year and, additionally, a specific periodic monitoring of the receiving environment is carried out where the physical-chemical quality of the water is analyzed, as well as a control of the biota of the zone.



Solid wastes

DDF reinforcement in reducing waste generation has been remarkable over the years, obtaining a progressive and continuous decrease.



Natural resources

In addition to the main raw material (fluorspar), the three natural resources used in the production processes of DDF are:



Electric power, necessary for the operation of the engines, pumps and process and refrigeration equipment.



Natural gas, for heating process equipment.



Water, which is used in the cooling of the processes and in the purification of the gas treatment facilities.



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