

HISTORY



Company established in 1955 and set up entirely with family capital

 Iberian Peninsula leader in the revaluation of tinplate scrap

LOCATION





SALES GEOGRAPHICAL DISTRIBUTION

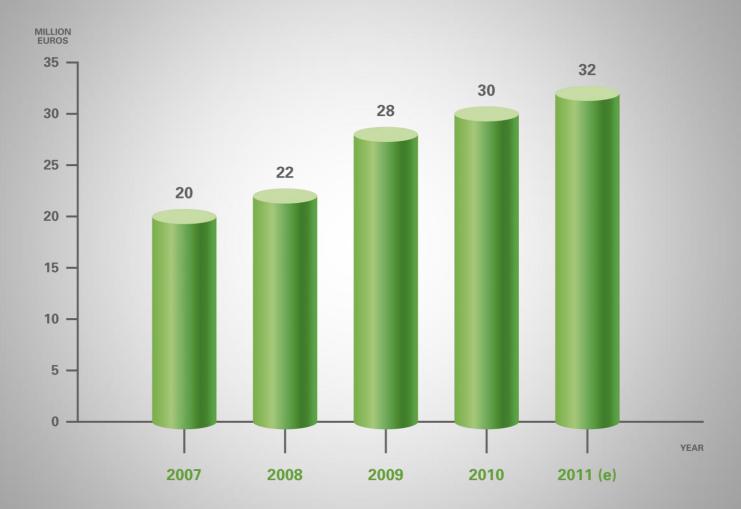




% GRUPO SEGURA RUIZ SALES IN EACH COUNTRY

GROUP ANNUAL SALES

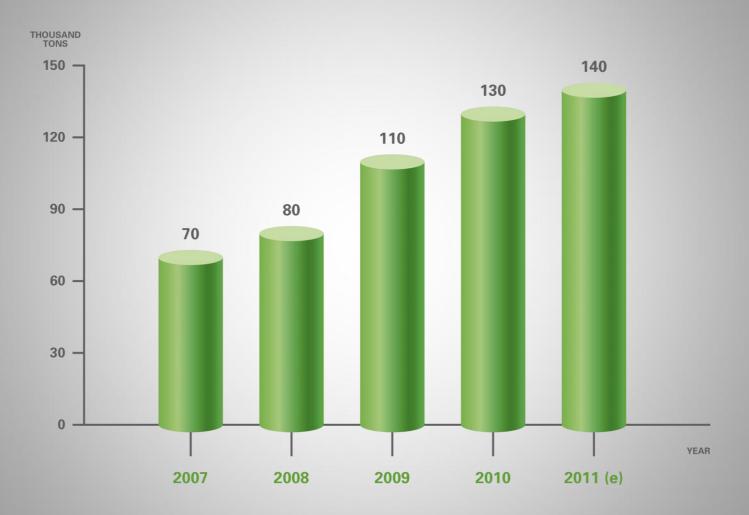




Total inversion in the last 10 years in RESEARCH+DEVELOPMENT = 5.500.000 €

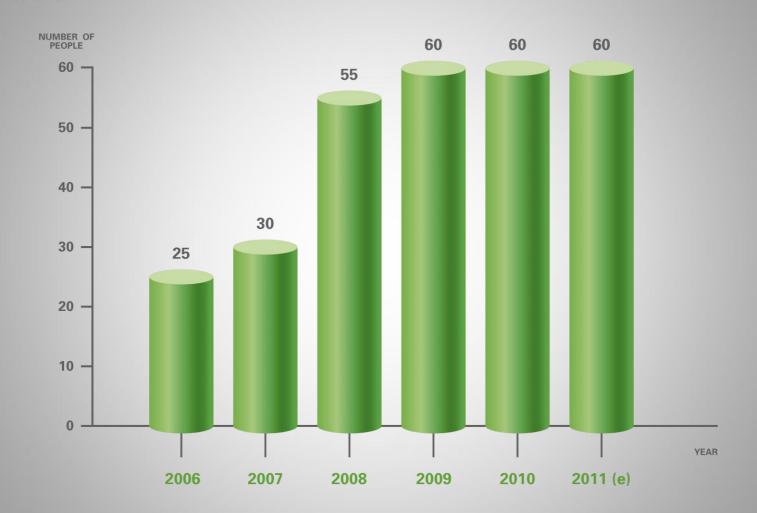
VOLUME OF PROCESSED TONS





STAFF





12 High Qualified Technical Experts

48 Specialized workers

COMMERCIALIZED PRODUCTS & SERVICES



- Revaluation of metal scrap
- Iron
- Tin
- By-products (SEPOAN 601 TC)
- Applied technology

GROUP COMPANIES



- Pedro Segura S.L.
- Chatarras y Metales Segura S.A.
- Segura Ruiz Troquelados S.L.
- Valfer S.L.
- Recibot S.L.
- G2 Flexodigital S.L.
- Metalmed S.L.
- Division Quimica Segura S.L.

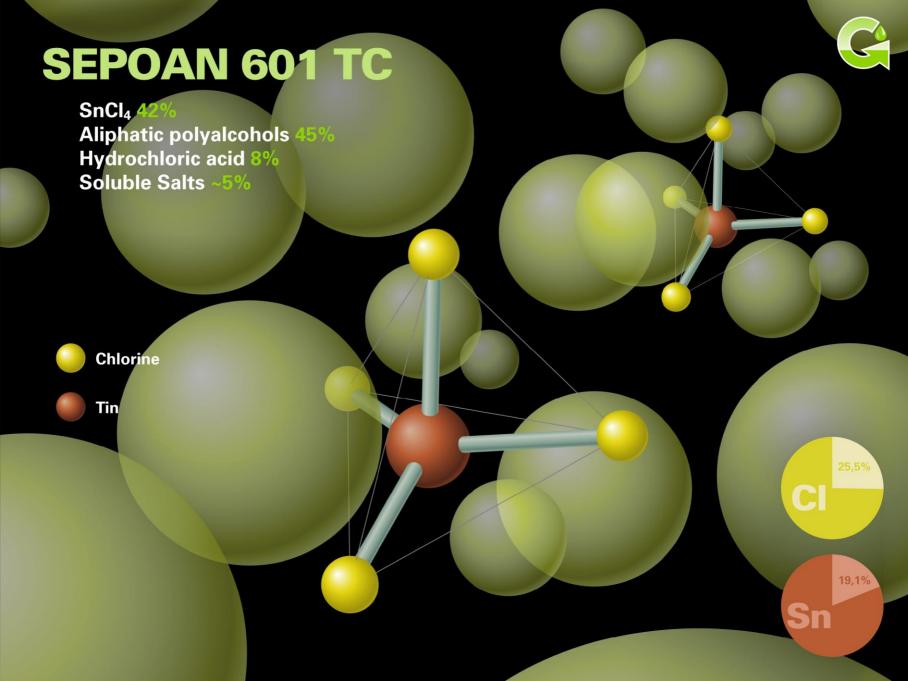


DIVISIÓN QUÍMICA GRUPO SEGURA RUIZ

CHEMICAL DIVISION
OF GRUPO SEGURA RUIZ

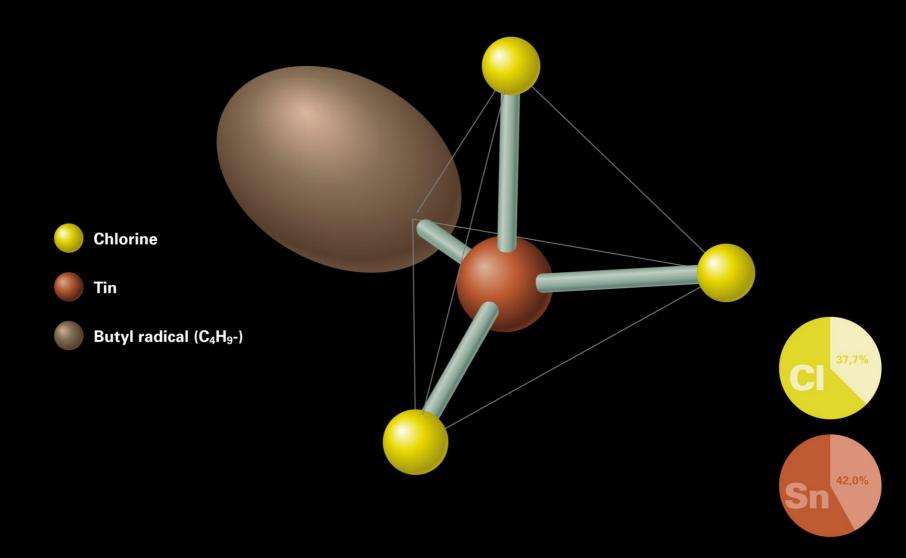


SEPOAN 601 TC



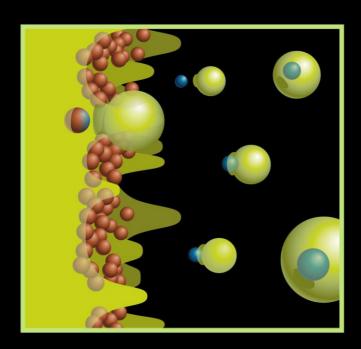
TIN TRICHLORO MONOBUTYL



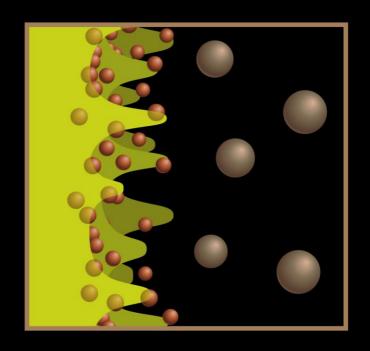


MECHANISM OF ACTION COMPARISON





SEPOAN 601 TC TIN TRICHLORO MONOBUTYL





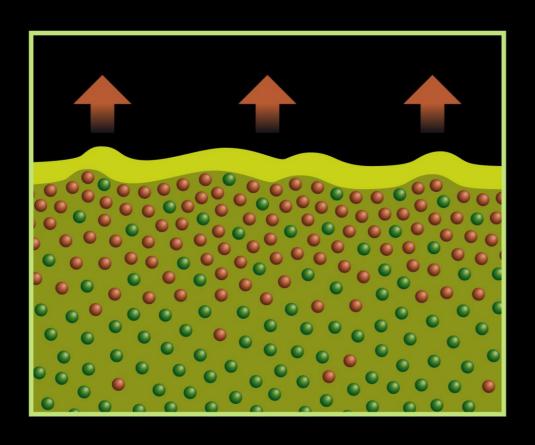






SEPOAN 601 TC ATOMS CONTENT





IT CONTRIBUTES
TO THE
DISAPPEARANCE
OF LATTICE DEFECTS

IT FAVORS
THE OCUPPATION
OF ACTIVE
CENTERS

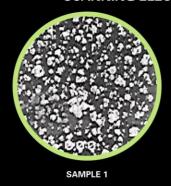
IT INCREASES
THE CHEMICAL
AFFINITY UNDER
MOLECULAR LEVEL

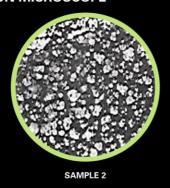
GLASS SURFACE



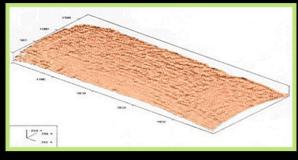
SEPOAN 601 TC

SCANNING ELECTRON MICROSCOPE





SCANNING TUNNELING MICROSCOPE



SAMPLE 3

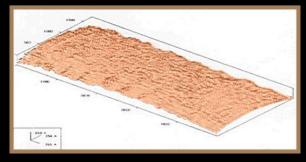
TIN TRICHLORO MONOBUTYL

SCANNING ELECTRON MICROSCOPE





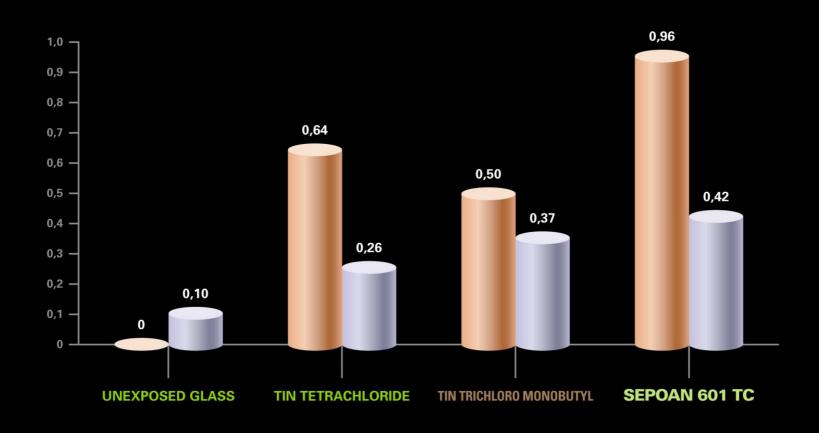
SCANNING TUNNELING MICROSCOPE



2 SAMPLE 3

SUPERFICIAL ATOMIC RELATIONS







HEALTH AND SAFETY



CALCULATION OF STOICHIOMETRIC HIGHER QUANTITIES



Expelled products (g)

Tested products (1.000 g)	HCI	SnO ₂	TiO ₂
TiCl ₄	768,83	-	420,75
SnCl ₄	560,03	578,06	-
TIN TRICHLORO MONOBUTYL	388,02	534,02	-
SEPOAN 601 TC	263,21	242,78	-

Per day

(Air flow 8 m3/min)

SnCl₄ (1,00Kg/día)

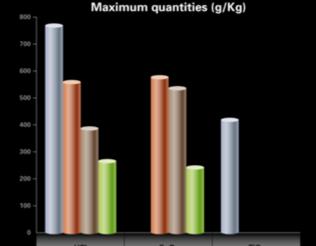
560.030 mg HCl / 11.520 m³/día = 48,6 mg/Nm³ HCl 578.060 mg SnO₂ / 11.520 m³/día = 50,2 mg/Nm³ SnO₂

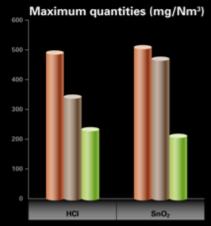
TIN TRICHLORO MONOBUTYL (1,00Kg/día)

388.020 mg HCl / 11.520 m³/día = 33,7 mg/Nm³ HCl 534.020 mg SnO₂ / 11.520 m³/día = 46,4 mg/Nm³ SnO₂

SEPOAN 601 TC (1,00Kg/día)

263.210 mg HCI / 11.520 m³/día = 22,8 mg/Nm³ HCI 242.780 mg SnO₂ / 11.520 m³/día = 21,1 mg/Nm³ SnO₂







COMPARATIVE TABLE



SEPOAN 601 TC





LESS SMELL AROUND THE TUNNEL



LESS AGGRESSIVE FOR THE HANDLER (does not dry skin and lips)



NO ORGANOMETALLIC BY-PRODUCTS

TIN TRICHLORO MONOBUTYL







MORE AGGRESSIVE FOR THE HANDLER

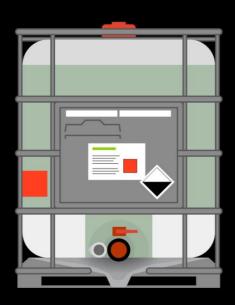


POSSIBLE APPEARANCE
OF DANGEROUS
ORGANOMETALLIC
BY-PRODUCTS

STORAGE (1.600 kg)

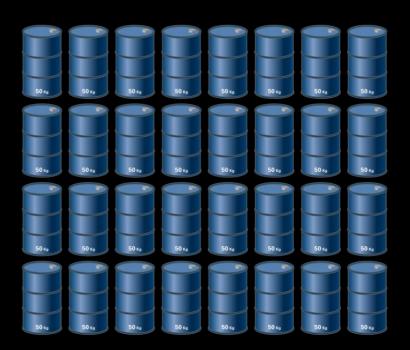


SEPOAN 601 TC



EASIER, FUNCTIONAL AND SAFER STORAGE

TIN TRICHLORO MONOBUTYL





APPLICATION



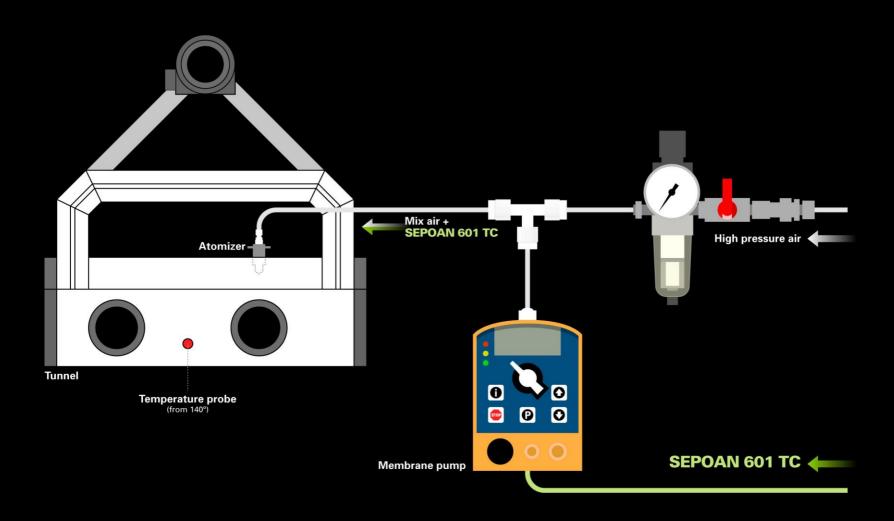
SEPOAN ECOATINGSYSTEM

SEPOAN 601 TCNEW APPLICATION SYSTEM

- Easy to use
- It goes for any type of tunnel
- Homogeneity
- Best performance in the market

APPLICATION GENERAL DIAGRAM





RESISTANCE TESTS



After testing the resistance to scratch and abrasion, **SEPOAN 601 TC** was found to offer 10% more of resistance to scratch. This fact allows us to reduce CTU from 40-50 to 30-40.





Very homogeneous cold treatment.

Manual application, bottle by bottle, with modified polyethylene wax.

Modified scratching equipment that reaches values higher than 30 kgf (30x2 kgf)

Fixed sliding angle: 11°

Number of tested bottles: 100

	SCRATCHING RESISTANCE (kgf)			
CTU	TIN TRICHLORO MONOBUTYL	SEPOAN 601 TC		
0	1	1		
10	7	8		
20	13	15		
25	22	23		
30	30	33		
40	55	59		
60	>60	>60		

DIFFERENTIAL (%)
0
+14
+15
+5
+10
+7
-



ENVIRONMENT

ENVIRONMENTAL COMMITMENT

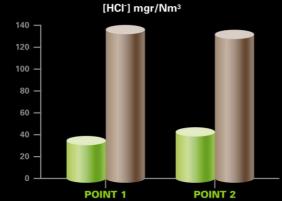


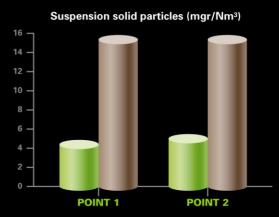
In keeping with our environmental policy and considering sustainable evolution, we have created **SEPOAN 601 TC**, product that emits the lower quantity of HCl and SnO₂ in the market.

1	TIN TRICHLORO MONOBUTYL			SEPOAN 601 TC		
ì	SAMPLE	[Cl ⁻] mgr/Nm³	SUSPENSION SOLID PARTICLES (mgr/Nm³)	SAMPLE	[Cl ⁻] mgr/Nm³	SUSPENSION SOLID PARTICLES (mgr/Nm³)
Z	1,M1	131,6	12,3	1,S1	35,8	4,0
Ħ	1,M2	138,9	12,5	1,S2	32,3	5,0
0	1,M3	141,5	15,1	1,S3	39,9	4,2
	Average [Cl ⁻] = 137,3 mgr/Nm ³			Average [Cl ⁻] = 36,0 mgr/Nm ³		
	Particles Average [Cl ⁻] = 13,3 mgr/Nm ³			Particles Average [Cl¹] = 4,4 mgr/Nm³		
2	TIN TRICHLORO MONOBUTYL		SEPOAN 601 TC			
7	SAMPLE	[Cl ⁻] mgr/Nm³	SUSPENSION SOLID PARTICLES (mgr/Nm³)	SAMPLE	[Cl ⁻] mgr/Nm³	SUSPENSION SOLID PARTICLES (mgr/Nm³)
	2,M1	145,5	15,6	2,S1	43,5	4,8
	2,M2	129,3	12,2	2,S2	40,6	5,0
O	2,M3	128,6	14,8	2,S3	38,5	4,5
l 🕰 i	Average [Cl ⁻] = 134,5 mgr/Nm ³		Average [Cl ⁻] = 40,9 mgr/Nm ³			
	Particles Average [Cl ⁻] = 14,2 mgr/Nm ³			Particles Average [Cl ⁻] = 4,8 mgr/Nm ³		

GASES ANALYTICAL Comparative research







FULL RECYCLING PLAN



A REVOLUTION IN GLASS TREATMENT

NO WASTES FOR THE GLASS MANUFACTURER

We take away, with no aditional expense:







CHRONOLOGY AND LOCATION

SEPOAN 601 TC CHRONOLOGY



- Start of laboratory tests
- 2000 Start of semi-industrial works
- **Start of industrial application**
- Industrial application (50tm)
- product release to the market

SEPOAN 601 TC IN SPAIN





SEPOAN 601 TC IN THE WORLD







SEPOAN 601 TC

Top quality and no waste producer product

Easy industrial application product

A product **improved in health and safety** at work.

A product adapted to the needs of the customer.

A product specifically created for the treatment of glass containers

A product that improves the quality of processed containers



REGULATIONS AND CERTIFICATES



- Quality Management Certificate according to UNE Regulation ISO 9001
- Standardization Certificate issued by ECOEMBES
- Standardization Certificate issued by ECOACERO
- Waste Management and Haulage Certificate issued by The Government of Murcia

SEPOAN 601 TC

- Safety Data Sheet
- Technical Data Sheet
- Alimentary Certificate.
- Registro General Sanitario de Alimentos (Alimentary Register)



OBJETIVES



- Our priority is the satisfaction of our customers
- Our economical success depends heavily on our customers trust in us
- Continuous improvement in every working process
 - More safety
 - Respect for the environment
 - Natural resources preservation and protection
- Competitive prices and quality

OUR PROGRAM



1. Standardization of processes and products

- People responsible for the process quality control
- Team work
- Continuing training program
- End product quality program
- Quality systems audity

2- Company standardization

- Quality control policy
- Quality objectives are detailed in quality plans for every level of the company

OUR EXPERIENCE



Specialist in process and product

Own technology

Experience in customer management

 Built-in technical service for customer support





Product experience

Quality Assurance Certificate

Customer Support technical service

Help/recommendation for the control of the process

"Glocal" supply

Global and local

THANK YOU VERY MUCH

