

## PRODUCT DATA SHEET

# LIQUID SULPHUR DIOXIDE

### (FOOD GRADE – E220)

Synonyms	Sulphurous anhydride (liquid), Anhydrous sulphurous acid (liquid)		
Formula	SO <sub>2</sub>		
Molecular weight	64,06		
International codification	CAS N° : 7446-09-5	CUS N° : 23806	
	EEC N° (EINECS) : 231-195-2	Customs Tariff : 2811 29 05	

#### Product Characteristics

<b>Appearance</b>	Colourless liquid with irritating and suffocating odour		
<b>Chemicals properties</b>	<b>Test methods</b>	<b>Specification</b>	
SO <sub>2</sub> %	Calculation (100 - a - b) %	99,99	min
H <sub>2</sub> O (a) ppm	ELC 21 - Karl FISCHER	50	max
Non volatile material (b) ppm	ELC 26 - Gravimetry	50	max
H <sub>2</sub> SO <sub>4</sub> ppm	ELC 54 – Titration	10	max
Selenium (Se) ppm	ICP	1	max
Arsenic (As) ppm	ICP	1	max
Lead (Pb) ppm	ICP	1	max
Heavy Metals ppm	ICP	1	max
Mercury (Hg) ppm	ICP	1	max
Cadmium (Cd) ppm	ICP	1	max
Other gases normally not present in the air		No trace	
<b>Physical properties</b>	<b>Specification</b>		
Fusion point	- 73,15	°C	
Boiling point	- 10	°C	
Density at 15° C	1,434		
Steam pression at 15 °C	2,8	bar	
20 °C	3,2	bar	
Critical temperature	157,12	°C	
Critical pression	77,65	bar	
Solubility in water at 0 °C	23	g/100 ml	
20 °C	11,3	g/100 ml	
Vaporisation heat at 20 °C	88,2	cal/gramme	
1 liter of liquid at 1013 mbar and 20 C° releases 472 liters of gas.			



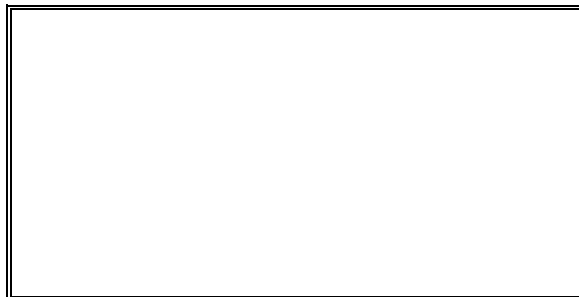
## Packing and storage

Packing	<ul style="list-style-type: none"> <li>. Steel carboy of 50 kg net</li> <li>. Steel containers of 700 kg net</li> <li>. Tankers from 18 to 22 tons</li> <li>. Tanks wagons of 25 tons</li> </ul> <p>At regular and legal intervals, all of those packagings are tested at 20 kg/cm<sup>2</sup> by a state- registered organism.</p>
Storage	Kept in steel receptacles (with liquefied gas under pressure) perfectly watertight and controlled, situated in well ventilated rooms, sheltered from heat and humidity.
A maximum rate of filling of containers of 80 % corresponding at 1,23 kg of SO <sub>2</sub> by liter of capacity will be respected.	

## Main uses

<u>Food industry</u>	<u>Non-food industry</u>
<p>Functions : bleaching agent, preserving agent (E220) , anti-oxydating</p> <p>Uses : Potato pre-peeled, onions with vinegar, fruits and frozen vegetables, sugar, treacle, glucose syrup, food gelatine, jam, syrup, stewedfruit and jelly, cookies, starch, potato flour, wine</p>	<p>Paper industry : bleaching</p> <p>Glass industry : float glass</p> <p>Leather industry : skin treatment</p> <p>Textile industry : antichorine and water treatment</p> <p>Petroleum industry : refining of hydrocarbons</p> <p>Chemical industry : industrial manufacture of several products</p> <p>Non-ferrous industry : ore flotation</p>
The liquid sulphur dioxide replaces favourably the sulphur combustion in most applications. Supplied under a pressure of 3 to 4 kg ordinary temperature, it can be distributed in several points of a plant from a checkpoint.	

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It is our policy to constantly improve our products. We reserve the right to modify these characteristics with prior notice.

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