



# Raw materials and intermediates for Agrochemicals

## Raw materials and intermediates

### Chlorobenzen and Hydrochloric acid

**Monochlorobenzene, ortodichlorobenzene** and **hydrochloric acids** are the main products used in agrochemical production. PCC Rokita sa is one of the two manufacturers of chlorobenzenes in Europe. The products from our installations are of the highest

global quality and meet requirements of all possible applications. Our synthesis plant produces hydrochloric acid with unique concentrations and exceptional purity.

Commercial name	Chemical formula	Other commercial names	Form	Concentration	Quality	Characteristics	Packaging	Main applications
Monochlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl	Chlorobenzene, MCB, phenyl chloride	liquid	99.9%	very high	Product of chlorobenzene plant	Steel drums 220 kg, road tank cars, isotanks, rail tank cars	Component for the production of fungicides, herbicides and other plant protection products
Ortodichlorobenzene	C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>	1.2 dichlorobenzene, ODCB	liquid	99.8%	high	Product of chlorobenzene plant	Steel drums 220 kg, road tank cars, isotanks	Component for the production of fungicides, herbicides and other plant protection products
Hydrochloric acid technical grade	HCl	Hydrogen chloride water solution	liquid	>=31% water solution	standard	Product of chlorobenzene plant	IBC 1000L, steel drums 220 kg, road / rail tank cars	Component for the production of fungicides, herbicides and other plant protection products
Hydrochloric acid food grade	HCl	Hydrogen chloride water solution	liquid	>=33% water solution	very high	Product of inorganic synthesis, approved for use in food industry installation and production processes	IBC 1000L, steel drums 220 kg, road / rail tank cars	Component for the production of plant protection products
Synthetic hydrochloric acid	HCl	Hydrogen chloride water solution	liquid	>=33% water solution	high	Product of inorganic Synthesis	IBC 1000L, steel drums 220 kg, road / rail tank cars	Component to the production of plant protection products

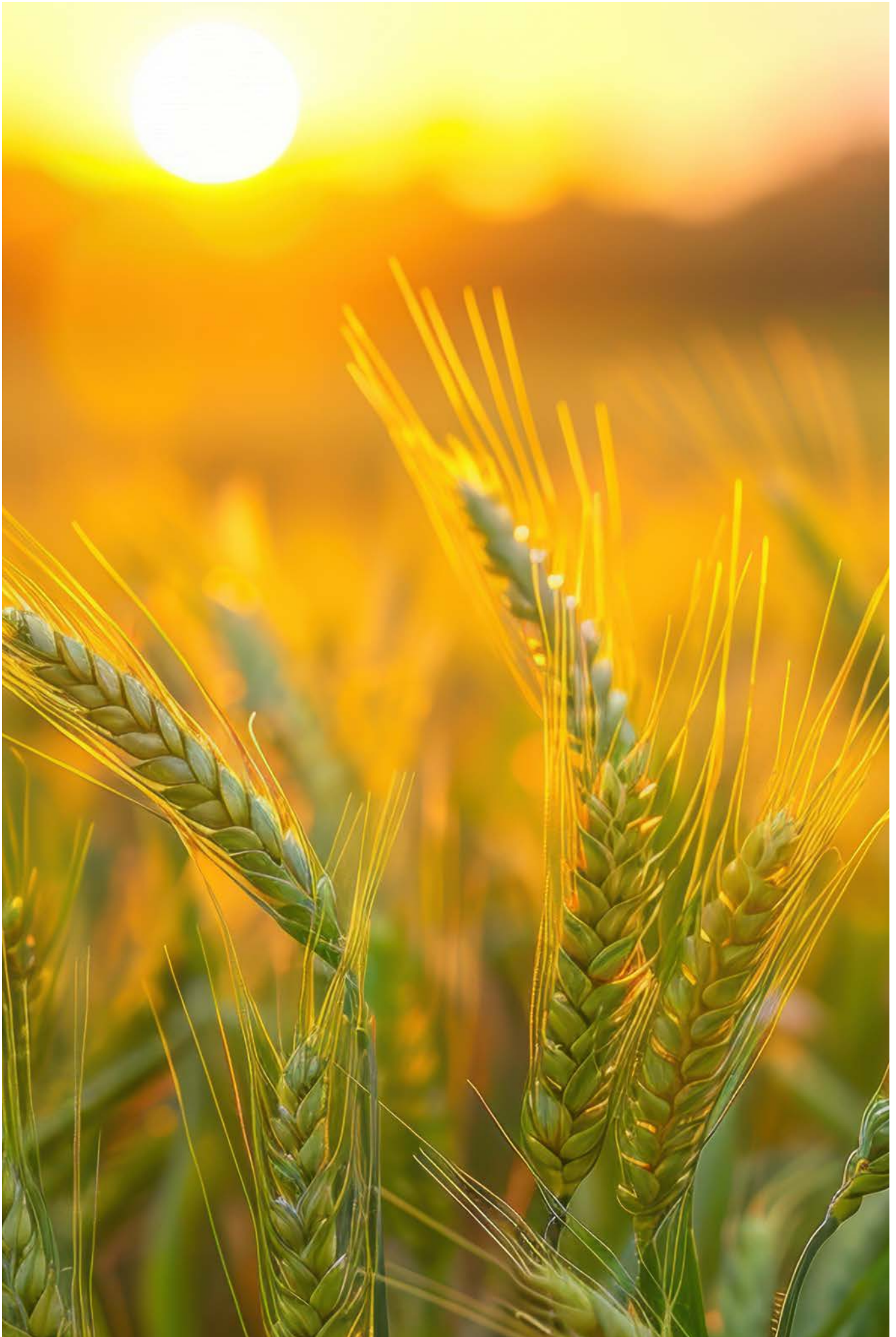
### Phosphorus trichloride and Phosphorus oxychloride

**Phosphorus trichloride** and **phosphorus oxychloride** are one of the most important raw materials, which might be used as a substrate in the reaction introducing phosphor, as well as

chlorinating agent. Due to applied production technology, both products are characterized by high purity, which made them useful for several, even very demanding reactions.

Product name	Chemical name	CAS	Appearance	PCL <sub>3</sub> [%]	POCL <sub>3</sub> [%]	Density at 20°C [g/cm <sup>3</sup> ]	Function
PCl <sub>3</sub>	Phosphorus trichloride	7719-12-2	colourless liquid	min. 99.50		1.570-1.580	Product used as raw materials/ intermediates in preparation of crop protection chemicals, e.g. in herbicides and insecticides.
POCl <sub>3</sub>	Phosphorus oxychloride	10025-87-3	colourless or straw liquid		min. 99.50	1.672-1.678	





## Surfactants

### Dispersing Agents

**Dispersing agents** from Rodys series are high quality products, that neither have an environmental classification, nor contribute to increasing the content of free aromatic hydrocarbons in finished products. Therefore, they are an ideal solution for agrochemicals. Rodys products are mainly dedicated for water dispersion.

They allow to obtain dispersion stable in time, characterized by the appropriate size of the dispersed particles and viscosities enabling their pumpability. Rodys products are available in a powder, as well as a liquid form.

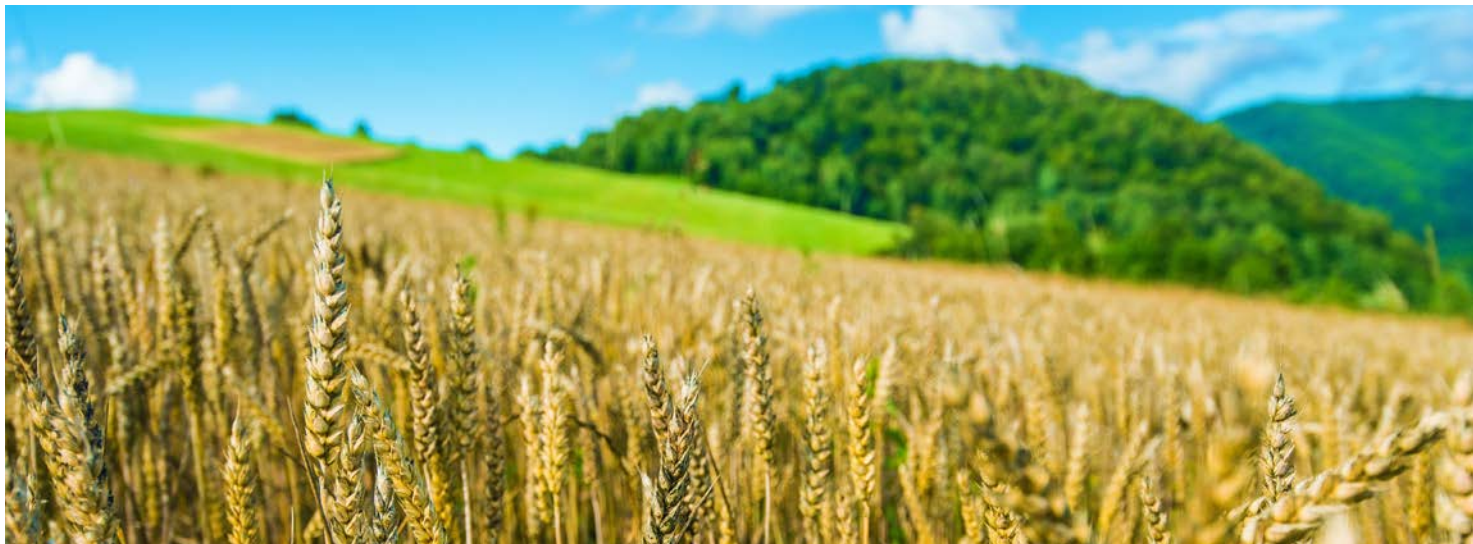
Product name	Chemical name	CAS	Physical form	Solid content	Active content	Water content	Sodium sulphate	Polymerisation degree	Formaldehyde free	FDA 21CFR 175.105	Swiss Ordinance SR817.023.21	Germany BfR XXXVI	EU10/2011
Rodys L	Sodium salt of naphthalene sulfonate formaldehyde condensate	9084-06-4	liquid	–	min. 36	59-61	3	high	no	yes	✓	✓	✓
Rodys O	Sodium salt of naphthalene sulfonate formaldehyde condensate	9084-06-4	liquid	–	min. 38	59-61	1.2	high	yes	yes	✓	✓	✓
Rodys C	Sodium salt of naphthalene sulfonate formaldehyde condensate	9084-06-4	liquid	–	32-39	61-64	4.5	medium	no	yes	✓	✓	✓
Rodys LP	Sodium salt of naphthalene sulfonate formaldehyde condensate	9084-06-4	powder	min. 87	–	max. 8	max. 7.5	high	no	yes	✓	✓	✓
Rodys OP	Sodium salt of naphthalene sulfonate formaldehyde condensate	9084-06-4	powder	min. 87	–	max. 10	max. 3	high	yes	yes	✓	✓	✓
Rodys CP	Sodium salt of naphthalene sulfonate formaldehyde condensate	9084-06-4	powder	min. 78	–	max. 10	max. 12	medium	no	yes	✓	✓	✓

✓ EU10/2011 – NSF compounds are not directly listed, but can be used in the following case:

Article 6 Derogations for substances not included in the Union list

4. The following substances not included in the Union list may be present in the plastic layers of plastic materials or articles: (b) aids to polymerisation.

Article 3 Definitions (10) 'aid to polymerisation' means a substance which initiates polymerisation and/or controls the formation of the macromolecular structure.



Construction	Latex / rubber / adhesive	Printing	Paints & coatings	Metal working	Ceramics	Water treatment / oil field	Textile	Agrochemicals	Description
	•		•	•		•		•	This is a versatile dispersing agent utilized for pigment stabilization in coatings, as an asphaltene inhibitor in the oil field, and as a coagulum dispersant in latex applications. It is a commonly employed solution for stabilizing inorganic compounds in galvanotechnics and agrochemicals.
	•	•	•	•		•		•	This is a versatile dispersing agent utilized for pigment stabilization in coatings, as an asphaltene inhibitor in the oil field, and as a coagulum dispersant in latex applications. It is a commonly employed solution for stabilizing inorganic compounds in galvanotechnics and agrochemicals. Notably, it is a formaldehyde-free grade.
				•			•	•	Product mainly used in textile sector as a dye compatibiliser, leveling agent and reducer of ring marks. Popular solution in agriculture and galvanotechnics.
	•					•		•	This is a versatile dispersing agent used in various industries, including oil field and emulsion polymerisation. In the agricultural sector, it functions as a dispersant specifically designed for the manufacturing of water-soluble powdered fertilizers (WPs) and granulated fertilizers (WGs). Its primary role in this context is to facilitate the even dispersion of the active substances as soon as they are prepared in the liquid phase. Moreover, Rodys LP serves as a crack-preventing agent in fertilizers that contain ammonium nitrate.
	•	•				•		•	This is a versatile dispersing agent used in various industries, including oil field and emulsion polymerisation. In the agricultural sector, it functions as a dispersant specifically designed for the manufacturing of water-soluble powdered fertilizers (WPs) and granulated (WGs) fertilizers. Its primary role in this context is to facilitate the even dispersion of the active substances as soon as they are prepared in the liquid phase. Moreover, Rodys OP serves as a crack-preventing agent in fertilizers that contain ammonium nitrate. Notably, it is a formaldehyde-free grade.
				•			•		Medium molecular weight, powder version NSF mainly used in textile sector as a dye compatibiliser, leveling agent and reducer of ring marks. Popular solution in agriculture and galvanotechnics.

✓ Germany BfR XIV - NO  
Germany BfR XXXVI  
Use as:  
II. Precipitating, fixing and parchmentisation agents.  
V. Dispersion and flotation agents.

✓ Swiss Ordinance SR817.023.21 - Use as: additive  
(without additives used in the production of colourants and pigments).

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The information in the catalogue is believed to be accurate and compiled to the best of our knowledge; however, it should be considered as introductory only. Detailed information about our products is available in TDS and MSDS.

The suggestions for product applications are based on our best knowledge.

The responsibility for the use of products in conformity or otherwise with the suggested application, and for determining product suitability for the user's own purposes rests with the user.

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