

PYRION™

Sodium PYRION™

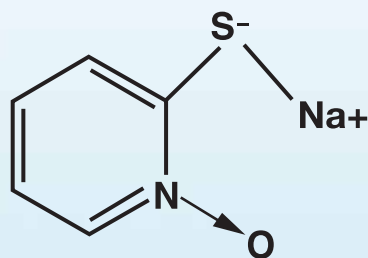
• Product description

Sodium PYRION™ technical is an antimicrobial preservative that acts against moulds, yeasts, bacteria and algae.

• Information on Sodium PYRION™ active substance

BSI name:	Sodium pyrithione
Chemical name:	Pyridine-2-thiol 1-oxide, sodium salt
CAS number:	3811-73-2
Molecular formula:	C ₅ H ₄ NNaOS
Molecular weight:	149.15

Structural formula:



• Chemical and physical data Sodium PYRION™ 40%:

Product Specifications¹:

Assay:	Min 40 % w/w
Appearance:	Clear, yellow-brown liquid
Specific density:	1.19 – 1.24 g/ml
pH-value:	9.5 – 11.5

Shelf life

If stored at ambient temperature, in the original sealed container, Sodium PYRION™ 40% has a shelf life of minimum three years.

• Chemical and physical data Sodium PYRION™:

Typical physical properties²:

pH:	8.0 (2% in water)
Solubility in water:	> 500g/l at 20° C
Partition coefficient:	log Pow = 0.00015 at 20°C
Thermal stability:	250° C

¹ Product specification parameters are subject to constant monitoring. Only the parameters that are included in the latest edition of the Product Specification Report for Sodium PYRION™ 40% are binding.

² Typical physical properties provide additional information on the product, but are not subject to constant monitoring and are, hence, not binding.

• Chemical and physical data Sodium PYRION™:

Carcinogenicity:	Not carcinogenic
Mutagenicity:	Not mutagenic
Dermal sensitisation:	No sensitising effect known
Eye irritation:	Irritant to eyes
Skin irritant:	Irritant to skin

• Recommended use levels of Sodium PYRION™:

Sodium PYRION™ is highly active against micro-organisms. In water based functional fluids (metal working fluids, hydraulic fluids, water based latex paints, adhesives, glues, lubricants, in can preservation, liquid cooling, processing systems, leather, ...) 0.01 to 0.1% active ingredient is sufficient to control microbial growth. Depending on the application we recommend to use an additional bactericide or fungicide.

Architectural paints for exterior applications can be protected against algal and mould growth with Sodium PYRION™, however light stability and leachability could be critical.

• Chemical stability and compatibility Sodium PYRION™

Sodium PYRION™ is stable under normal environmental conditions if stored in the original (dark colored) and closed container. The aqueous Sodium PYRION™ solution is stable at pH-values above 6.5. Addition of Sodium PYRION™ does not affect the alkalinity of most metal working fluids. At low pH values, free pyrrithione will be formed.

Sodium PYRION™ is photosensitive in aqueous solutions and discoloration can occur if exposed to direct sunlight or UV-light. Today we have no evidence that any discoloration does influence the effectiveness.

Sodium PYRION™ is compatible with most raw material used in technical applications. Discoloration can occur in presence of oxidizing agents or heavy metals. Because this phenomenon also depends on the pH and other ingredients, a stability test is highly recommended.

• Registration

Sodium PYRION™ is an existing active substance under the Biocidal Products Directive (BPD, 98/8/EC). This substance will be defended for a range of product types.

For further registration information worldwide (BPD, EPA), the Registration Department of Janssen PMP can be contacted via the contact information below.

• Standard Packaging

200 and 1200 kg

More information on packing presentations upon request.

• Contact us

Commercial Issues Tel.: +32 (0) 14 60 8325
Technical Service Tel.: +32 (0) 14 60 5717



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www.janssenpmp.com