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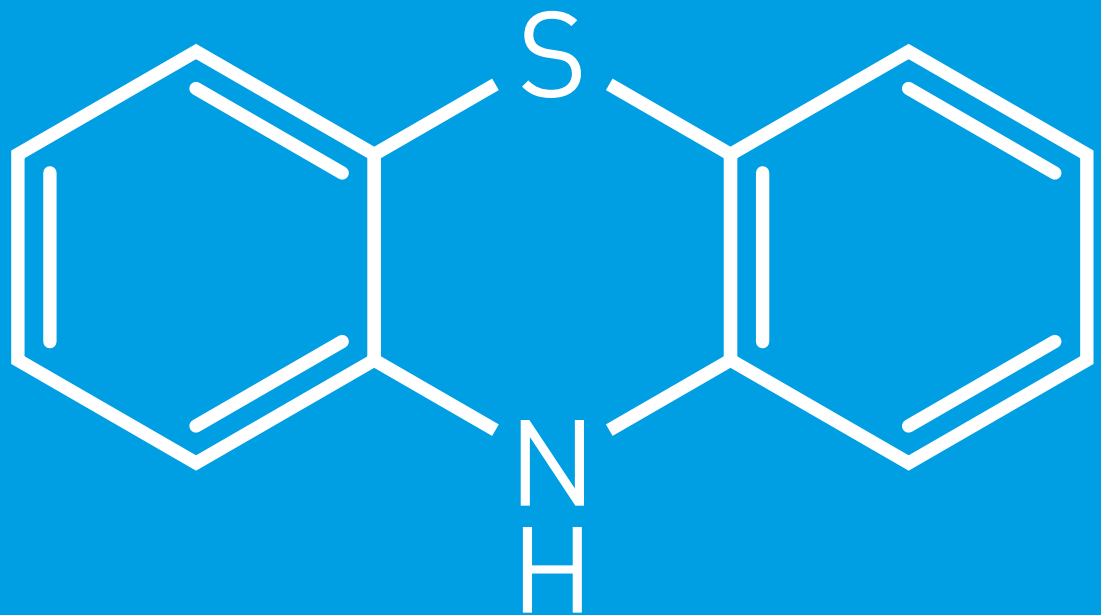
Phenothiazine Prills

Achieving the highest performance

Formula: $C_{12}H_9NS$

CAS-No.: 92-84-2

Molecular Weight: 199.3 g/mol



Phenothiazine Prills

Benefits

- Phenothiazine is a radical scavenger which can be used at high temperatures and under oxygen free conditions.
- Allesta is the world's largest producer.

Our patented Prills offer the following advantages:

- Improved solubility in acrylic acid and acrylates
- Optimal processing quality
- Improved storage
- Easier handling and dosage control
- Reduction in dust

Applications in the chemical and pharmaceutical industries

- **Monomer stabilizer** for unsaturated compounds (monomers), protecting them from uncontrolled polymerization. The addition of 200 – 3000 ppm of phenothiazine is sufficient in most cases to inhibit premature polymerization of acrylic acid, methacrylic acid, acrylates and vinyl compounds and thereby increases their stability during production and storage.
- **Antioxidant**, increases lifetime of synthetic rubber (chloroprene) and synthetic lubricating oils in order to improve their durability.
- **Building block** in pharmaceutical syntheses or as a pure substance in veterinary medicine.

Advantages of prills versus flakes

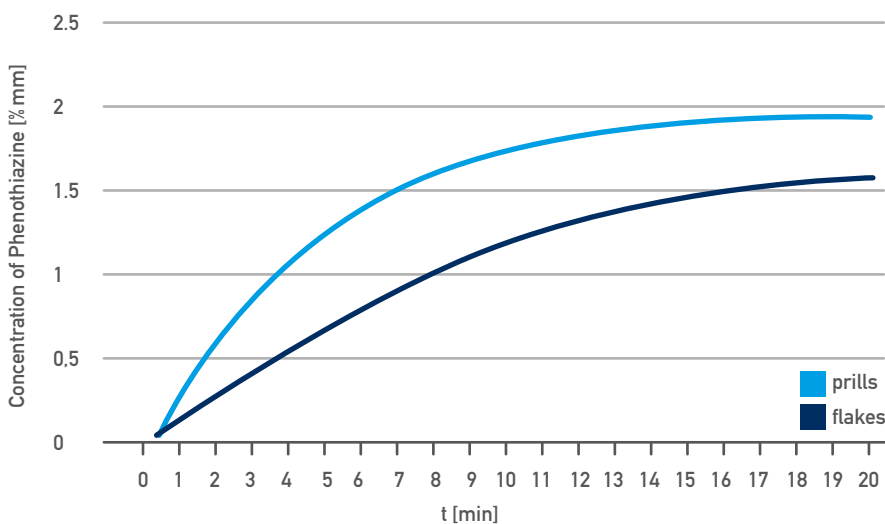
- Uniform particle size gives improved solubility in acrylic acid and acrylate production.
- Greater bulk density liberates more storage space
- Spherical shape and low dust content significantly reduce sticking of material
- Less to none sticking properties result in easier handling and a better dosage control while feeding the production unit
- Significant reduction in dust. Prills leave our production dust free. A small amount of dust is nevertheless caused during transportation due to mechanical abrasion.



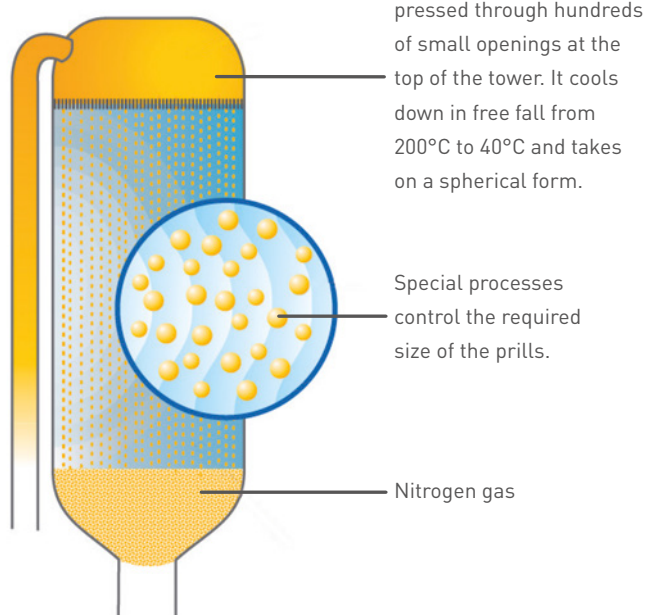
Our patented prills offer optimal processing quality and improved storage and handling.

Comparison of prills versus flakes

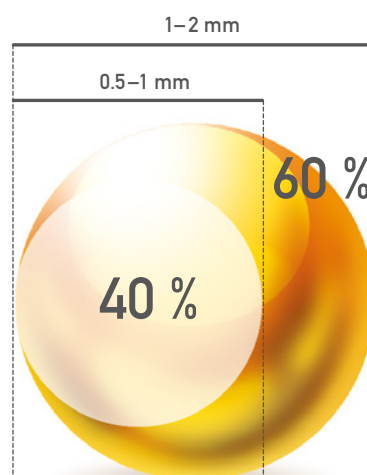
Dissolution rate of phenothiazine in acrylic acid



Phenothiazine in detail



Typical Particle Size Distribution



Specification and Analytical Data

QUALITY CHARACTERISTICS / PARAMETER / CONTENT	UNIT	TARGET VALUE TARGET AREA	REMARKS*
Appearance	-	yellow to greenish prills	CoA
Assay	% a/a	≥ 99.5	CoA
Diphenylamine	% a/a	≤ 0.5	CoA
Particle size > 500 µm	%	≥ 98.0	CoA
Melting point	°C	≥ 184.0	TD
Heating loss	%	≤ 0.2	TD
Ash	%	≤ 0.1	TD

* CoA: listed on Certificate of Analysis; each lot is tested.

TD: Technical Data: Not routinely examined, therefore no certification possible.



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Allessa GmbH

Alt Fechenheim 34
60386 Frankfurt/Main
Germany

Phone: + 49 (0) 69 4109 2178
E-Mail: sales@allessa.com
www.weylchem.com

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