



## Release Agent NL-1

<b>Product description</b>	Mixture of waxes, paste in solvents
	CAS No. : 64742-82-1
	EINECS/ELINCS No. : 265-185-4
	TSCA status : listed on inventory
<b>Specifications</b>	Appearance : Firm, white to yellowish paste
	Non-volatile, 105°C (2 hrs) : 27.0-29.0%
<b>Characteristics</b>	Density : 0.800 g/cm <sup>3</sup>
<b>Storage</b>	Release Agent NL-1 is stable at ambient temperatures.
	When stored under the recommended storage conditions, Release Agent NL-1 will remain within the AkzoNobel specifications for a period of at least 6 months after delivery.
<b>Packaging and transport</b>	The standard packaging is a 30 l HDPE can of 25 kg net weight.
	Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your AkzoNobel representative.
	Release Agent NL-1 is classified as Solids containing flammable liquid, n.o.s.; Division 4.1; UN 3175; Packing Group II.
<b>Safety and handling</b>	Keep containers tightly closed. Store and handle Release Agent NL-1 in a dry well-ventilated area at ambient temperatures. Do not mix with organic peroxides.
	Please refer to the Material Safety Data Sheet (MSDS) for further information on the safe storage, use and handling of Release Agent NL-1. This information should be thoroughly reviewed prior to acceptance of this product.
	The MSDS is available at <a href="http://www.akzonobel.com/polymer">www.akzonobel.com/polymer</a> .

## Applications

### External Release Agent for use in unsaturated polyester resins

Release Agents are special products, which are used in the UP industry to enable a demoulding of the cured UP part from the mould. Several types are available viz. 2 external Release Agents (Release Agent NL-1 and NL-2), which are applied on the mould and 1 internal release agent, Release Agent NL-30, which can be added to the UP resin. For the internal Release Agent called Release Agent NL-30, reference can be made to its separate Product Information Sheet (PIS). The main application area for these Release Agents is in the ambient temperature cure process.

#### Release Agent NL-1

Release Agent NL-1 is a waxy paste, which must be applied as a first thin coat on the mould. After application the wax layer should be polished thoroughly. Release Agent NL-2 is applied as second layer. It is not necessary to renew the NL-1 layer after each demoulding. The number of demouldings in which the same wax layer will serve before it has to be renewed, depends on the material of which the mould is made, the demoulding time and the method of cleaning the mould. If the mould is washed out with water, containing detergents, renewal of the wax layer is necessary after each washing.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. AkzoNobel Polymer Chemicals, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued bulletins on the subject matter covered. The user may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. You may not copy this document to a website.

Akzo Nobel Polymer Chemicals B.V.  
Amersfoort, The Netherlands  
Tel. +31 33 467 6767  
Fax +31 33 467 6151

polymerchemicals.nl@akzonobel.com

Akzo Nobel Polymer Chemicals LLC  
Chicago, U.S.A.  
Tel. +1 312 544 7000  
1 800 828 7929 (Toll free US only)  
Fax + 1 312 544 7188  
polymerchemicals.na@akzonobel.com

[www.akzonobel.com/polymer](http://www.akzonobel.com/polymer)

Akzo Nobel (Asia) Co., Ltd.  
Shanghai, PR China  
Tel. +86 21 6279 3399  
Fax +86 21 6247 1129

polymerchemicals.ap@akzonobel.com