

# PVC NERALIT

Product portfolio

**SUSPENSION  
POLYVINYL CHLORIDE**

# NERALIT<sup>®</sup> SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

<b>1.1 Product identifier</b>		
Trade name:	Neralit <sup>®</sup> type 581 Neralit <sup>®</sup> type 601 Neralit <sup>®</sup> type 652 Neralit <sup>®</sup> type 682 Neralit <sup>®</sup> type 702	
International chemical name / CAS Number	suspension polyvinylchloride (S-PVC) / 9002-86-2	
Identification number:		
Registration number:	registration according to Directive of the European Parliament and Council (EC) No. 1907/2006 (see Article 2 (9)(6)(3) of this Directive) is not required.	
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>		
Identified uses	Uses by workers in industrial settings	
	<p>Neralit<sup>®</sup> 581 and Neralit<sup>®</sup> 601 – low-molecular types of suspension PVC with high loose weight and low grain porosity; designed for products made of hard (non-plasticized) PVC. Neralit<sup>®</sup> 601 is suitable for the manufacturing of transparent products.</p> <p>Neralit<sup>®</sup> 652 – medium-molecular type of suspension PVC with the porous texture of grains; it is designed for the products made of both plasticized and non-plasticized PVC.</p> <p>Neralit<sup>®</sup> 682 - medium-molecular type of suspension PVC; it is designed for the products made of hard (non-plasticized) PVC with demanding requirements for good mechanical properties. It is suitable especially for the manufacturer of pressure pipes and window profiles.</p> <p>Neralit<sup>®</sup> 702 – high-molecular type of suspension PVC with the extremely porous texture of grains; it is designed for the products made of plasticized PVC. It finds main applications in the cable industry, namely in the production of conductors and cables. It is suitable for film coating.</p>	
<b>1.3 Details of the supplier of the safety data sheet</b>		
Manufacturer:	SPOLANA s.r.o.	
Registered office:	SPOLANA s.r.o., ul.Práce 657, 277 11 Neratovice	
Company ID:	451 47 787	
Telephone:	Tel: +420 315 662 555	Fax: +420 315 666 633
Competent person responsible:	Tel: +420 315 662 555	Mail: reach@spolana.cz
<b>1.4 Emergency telephone number</b>		
Klinika pracovního lékařství VFN a 1. LF UK Toxikologické informační středisko Na Bojišti 1, 120 00, Praha 2	Tel: +420 224 919 293, +420 224 915 402, E-mail: tis@vfn.cz Information only for health risks - acute poisoning of humans and animals	

## SECTION 2: Hazards identification

	Classification of the substance:	The substance does not show dangerous properties as per the wording of Act No. 350/2011 Sb.		
	Dangerous health effects:	The melt may cause severe burns.		
	Dangerous environmental effects:	Not available.		
	<b>Classification of the substance or mixture</b>			
2.1	Classification according to (EC) 1272/2008:	Not classified		
	<b>Label elements</b>			
2.2	Hazard pictogram(s):	None		
	Signal word:			
	Hazard statement(s):			
	Precautionary statement(s):	P260 Do not breathe dust/fume/gas/mist/vapours/spray.		
	<b>Other hazards:</b>			
2.3				

## SECTION 3: Composition/information on ingredients

3.1	<b>Substances</b>			
	The major component identifier:	Name.	suspension polyvinylchloride	
		Identification number:	Index number	CAS number
				EC number
				9002-86-2

## SECTION 4: First aid measures

4.1	<b>Description of first aid measures</b>
	<p><b>General first aid principles:</b></p> <p>In life threatening situations the administration of resuscitation is a priority</p> <p><b>The victim does not breathe</b> - administer artificial respiration immediately</p> <p><b>Heart arrest</b> - administer cardiac massage immediately</p> <p><b>Unconsciousness</b> - put the victim in a stabilized position on his/her side</p>

4.2 Most important symptoms and effects, both acute and delayed	
Inhalation:	Stop exposure immediately, take the victim out to the fresh air (watch out for contaminated clothes). Protect the victim from getting cold. Secure medical treatment.
Skin contact:	Take off contaminated clothes immediately. Rinse affected areas with a large amount of water, ideally lukewarm. If the skin was not damaged (injured), soap can be used too. Secure medical treatment.
Eye contact:	Immediately rinse the eyes with a stream of running water; open the lids with your fingers (even forcibly), remove contact lens, if any. Rinse the eyes for at least 10 minutes. Secure medical treatment.
Ingestion:	Do not induce vomiting. If possible, administer medicinal charcoal. Secure medical treatment.
Staining with melt:	8-hours limit PEL [mg/m <sup>3</sup> ]
4.3 Indication of any immediate medical attention and special treatment needed	

## SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	Small amounts: water, dry powder and foam extinguishers, or sand or soil. Large amounts: powder, heavy and medium foam or a water stream in the form of fine mist. Fire fighting: Remove the material from the fire area, providing it can be done safely. Use only suitable extinguishing means. Stand on the windward side of the fire and out of low-situated places.
Unsuitable extinguishing media:	Pressure water, snow fire extinguishers.
5.2 Special hazards arising from the substance or mixture	
Do not inhale combustion products. Thermal decomposition may produce toxic products, especially hydrogen chloride and carbon oxides (or other toxic gases such as phosgene, nitrogen compounds, etc.).	
5.3 Advice for firefighters	
Use isolation respirators to protect your airways during a fire fighting intervention.	

## SECTION 6: Accidental release measures

<b>6.1</b>	<b>Personal precautions, protective equipment and emergency procedures</b>
	Do not eat, drink or smoke while working with Neralit and after finishing working until you properly wash yourself with soap and hot water.
<b>6.2</b>	<b>Environmental precautions</b>
	Clean the contaminated area as soon as possible
<b>6.3</b>	<b>Methods and material for containment and cleaning up</b>
	Collect the leaked material in a suitable container for further processing or liquidation.
<b>6.4</b>	<b>Reference to other sections</b>

## SECTION 7: Handling and storage

<b>7.1</b>	<b>Precautions for safe handling</b>
	Do not eat, drink or smoke while working with Neralit and after finishing working until you properly wash yourself with soap and hot water. If spilt on a firm, smooth ground, the product can make you slip.
<b>7.2</b>	<b>Conditions for safe storage, including any incompatibilities</b>
	Store and handle the product in accordance with all common regulations and standards applicable to alkalis. Store PVC in dry, dust-free areas. Protect it from direct sunlight. Store away from organic solvents of all kinds and from chemicals contact with which is not guaranteed to be chemically safe. Observe the condition of the storage of plastic products – protection against electro static charge (ČSN 64 0090).
<b>7.3</b>	<b>Specific end use(s)</b>
	All types of PVC are supplied in the form of clean white powder, in cistern cars, car cisterns, packaged in bags or in big bags.

## SECTION 8: Exposure controls/personal protection

<b>8.1</b>	<b>Control parameters</b>			
	The national occupational exposure limit values according to Government decree No. 361/2007 Sb.			
	Name of substance (component(s)):	CAS	Short-term limit NPK-P [mg/m <sup>3</sup> ]	Note
	PVC powder		5	
	PEL- admissible exposure limit of the chemical substance in the working environment			
	NPK-P- maximum admissible exposure limit of the chemical substance in the working environment			

Occupational exposure limit values according to Directives 39/2000/EC and 15/2006/EC

Name of substance (component(s)):	CAS	8-hours limit TWA[mg/m3]	Short-term limit STEL[mg/m3]	Note

8-hour limit - measured or calculated limit related to an 8-hour reference period as a time-weighted average

Short-term limit – limit value corresponding to 15 minutes; if exceeded exposure should be avoided

Recommended monitoring procedures:

Taking a working environment sample by means of a sampling head for the further determination of dust levels and subsequent evaluation by balancing. Determination of dustiness with a dust counter.

The national biological limit values:

DNEL Not available.

PNEC Not available.

**8.2 Exposure controls**

Local ventilation or a whole ventilation system must secure the observance of relevant PVC dust limits.

**Personal protective equipment:**

Respiratory protection: Under the conditions of intensive or repeated exposure an appropriate respirator has to be worn to protect the airways.

Eye protection: Always wear goggles or a face shield at work where there is a risk of eye contact.

Hand protection:	Protective gloves with these specifications:			
	Working activity	Glove material	Minimum layer thickness	Time of penetration (minutes)
Common working activities with the possible risk of contamination	Natural latex (KCL-395,403)	1 mm	> 480 min	
Use during the liquidation of leaks and during accidents	Nitrile (KCL-732)	0,4 mm	> 480 min	

Protective gloves used must comply with the condition of EU Directive 89/686/EHS and of standard EN 374. The table presents the laboratory-detected data of the company KCL (catalog values). The values apply to the above-specified types of protective gloves. When different, equivalent types of glove are used, the same data have to be obtained from their supplier.

Skin protection: Always wear appropriate work clothes to prevent lasting contact with the substance.

**Environmental exposure control:**

Do not discharge into the sewer system, water streams and soil.

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties		
Appearance	White powder	
Odour:	Without smell	
Odour threshold:		
pH (at 20 °C):	Not applicable	
Melting point/freezing point (°C):	Not applicable	
Initial boiling point and boiling range (°C):	Not applicable	
Flash point (°C):	345-530 °C	
Evaporation rate:	Does not vapor	
Flammability (solid, gas):	Difficult to ignite	
Upper/lower flammability: or explosive limits	upper (% vol.):	Not applicable
	lower (% vol.):	Not applicable
Vapour pressure:	Not applicable	
Vapour density:	Not applicable	
Density:	1,32-1,36 g/cm <sup>3</sup>	
Solubility:	Insoluble in water	
Partition coefficient n-octanol/water:	Not applicable	
Auto-ignition temperature:	Self ignition does not occur.	
Decomposition temperature:	140-150 °C	
Viscosity:	Not applicable	
Explosive properties:	Only at high ignition energies	
Oxidising properties:	Not applicable	
Stability in organic solvents and identity of relevant degradation products	Soluble in cyclohexanone, methylcyclohexanone, dimethylformamide, nitrobenzene, tetrahydrofuran, dipropylketone, methylamylketone, methylisobutylketone, dioxane, methyletylketone, dichlormethane, chlorbenzene, dichlorethylene	
Dissociation constant	Not applicable	

<b>9.2</b>	<b>Other information</b>
	<p>Bulk density (according to type): 0,45-0,63 g/cm<sup>3</sup></p> <p>soluble: cyclohexanone, methylcyclohexanone, dimethylformamide, nitrobenzene, tetrahydrofuran, dipropylketone, methylamylketone, methylisobutylketone, dioxane, methyletylketone, dichlormethane, chlorbenzene, dichlorethylene resistant to nonoxigenic acids and alkalis, alcohols and aliphatic hydrocarbons</p>

## SECTION 10: Stability and reactivity

<b>10.1</b>	<b>Reactivity</b>
	Little reactive
<b>10.2</b>	<b>Chemical stability</b>
	The product is stable under standard conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>
	<p>Strong oxidation agents: risk of fire and explosion.</p> <p>Oxygenic acids: decomposition of polyvinylchloride.</p>
<b>10.4</b>	<b>Conditions to avoid</b>
	<p>Unsuitable storage conditions: prevent direct contact with flames, sparks and other potential sources of ignition.</p> <p>Prevent direct contact with substances with which it enters into dangerous chemical reactions. No dangerous degradation takes place under standard temperature and pressure or under common technological conditions of processing.</p>
<b>10.5</b>	<b>Incompatible materials</b>
	oxidation agents, oxygenic acids
<b>10.6</b>	<b>Hazardous decomposition products</b>
	PVC has a typical thermoplastic character; at temperatures above 80 °C it begins to soften, and when under pressure and at temperatures of 145-170 °C, it begins to flow. Prolonged heating to 140-150 °C turns the product brown and splits off hydrogen chloride. Thermal decomposition may be accompanied with the creation of other toxic by-products.



## SECTION 11: Toxicological information

11.1

### Information on toxicological effects

PVC is a nontoxic material that causes mild, mainly mechanical irritation of the mucosa and sensitive skin. PVC contains a maximum of 1 mg.kg<sup>-1</sup> (ppm) of vinyl chloride monomer. Information on significant adverse effects on the organism in case of long exposure is not known.

- a) **Acute toxicity**  
Not known
- b) **Skin corrosion/irritation**  
Not known
- c) **Serious eye damage/irritation**  
Not known
- d) **Respiratory or skin sensitisation**  
Not known
- e) **Germ cell mutagenicity**  
Not known
- f) **Carcinogenicity**  
Not known
- g) **Reproductive toxicity**  
Not known
- h) **Specific target organ toxicity (STOT)– single exposure**  
Not known
- i) **Specific target organ toxicity (STOT)– repeated exposure**  
Not known
- j) **Aspiration hazard**  
Not known

## SECTION 12: Ecological information

<b>12.1</b>	<b>Toxicity</b>
	Not classified as CMR and PBT or vPvB substance and does not meet the classification criteria for environmental hazards.
	<b>Fish</b>
	Not known
	<b>Algae</b>
	Not known
	<b>Daphnia</b>
	Not known
	<b>Bacteria</b>
	Not known
<b>12.2</b>	<b>Persistence and degradability</b>
	Not biodegradable.
<b>12.3</b>	<b>Bioaccumulative potential</b>
	Polyvinylchloride has no potential to bioaccumulate.
<b>12.4</b>	<b>Mobility in soil</b>
	Not applicable.
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>
	Not classified.
<b>12.6</b>	<b>Other adverse effects</b>
	Other ecotoxicological advice: Do not release untreated into natural waters.

## SECTION 13: Disposal considerations – in accordance with national directions

13.1	<b>Waste treatment methods</b>	
	a)	Recommended liquidation methods Observe all valid waste-related laws and regulations. Residual Neralit must be stored in an S-OO dumpsite.
	b)	Recommended methods of contaminated packaging liquidation
	c)	Empty packaging units can be recycled after thorough emptying.
	d)	Waste regulations Czech Republic: Waste Act No. 185/2001 Sb., as annotated, waste catalog (decree No. 93/2016 Sb.) as annotated. European Union: Directive of the European Parliament and Council No. 2006/12/ES on waste.

## SECTION 14: Transport information

14.1	<b>UN number</b>			
14.2	<b>UN proper shipping name</b>			
	ADR	Polyvinylchloride		
	RID	Polyvinylchloride		
	IMDG:	Polyvinylchloride		
	ICAO/IATA:	Polyvinylchloride		
14.3	<b>Transport hazard class(s)</b>			
	ADR	RID	IMDG:	ICAO/IATA:
14.3	<b>Transport hazard class(s)</b>			
	ADR	RID	IMDG:	ICAO/IATA:
	<b>Classification</b>			
	ADR	RID		

<b>14.4</b>	<b>Packing group</b>			
	ADR	RID	IMDG:	ICAO/IATA:
	ADR			
	80			
	<b>Labels</b>			
	ADR	RID	IMDG:	ICAO/IATA:
	<b>Note</b>			
	ADR	RID	IMDG:	ICAO/IATA:
		Marine pollutant: EmS:	PAO: CAO:	
<b>14.5</b>	<b>Environmental hazards</b>			
	No			
<b>14.6</b>	<b>Special precautions for user</b>			
	No			
<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>			
	No			

## SECTION 15: Regulatory information

<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
	Regulation of the European Parliament and Council (EC) No. 1907/2006 REACH Regulation (EC) 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures
<b>15.2</b>	<b>Chemical safety assessment</b>
	Chemical safety assessment was carried out.

## SECTION 16: Other information

- a) The changes in case of a revised safety data sheet  
New safety data sheet according to Annex II Regulation (EC) 1907/2006 amended by Reg. (EC) 453/2010
- b) A key or legend to abbreviations and acronyms  
PBT : Persistent, bioaccumulative and toxic.  
vPvB : Very persistent and very bioaccumulative.  
Skin Corr. 1A Skin corrosion/irritation, Hazard Category 1A
- c) Key literature references and sources for data  
Regulation of the European Parliament and Council (EC) No.1907/2006  
Registration documentation according to Direction (EC) 1907/2006 REACH  
Appendix I, IV, VI a VII from Direction (EC) 1272/2008 CLP as annotated  
  
Act No. 350/2011 Sb. on chemical substance and on chemical preparations and on changes in certain laws, as annotated  
Decree No. 232/2004 Sb. that implements the provisions of the Act on chemical substance and on chemical preparations and on changes in certain laws with regard to the classification, packaging and marking of dangerous chemical substances and chemical preparations, as annotated  
Act No. 258/2000 Sb. on the protection of public health and on changes in certain related laws, as annotated  
Governmental decree No. 361/2007 Sb., that stipulates the conditions of protecting employees' health at work
- d) **List of relevant phrases, hazard statements, safety phrases and/or precautionary statements**  
P-phrases            P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- e) Training appropriate for workers  
People handling the product must be informed about the risk of possible life and health hazards and about requirements for the protection of health and environment (see the respective provisions of Labor Code)
- f) More information  
Safety Data Sheet has been prepared in accordance with the Regulation of the European Parliament and Council Regulation (EC) no. 1907/2006 (article 32). Safety Data Sheet contains data necessary for ensuring safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in compliance with applicable laws and regulations. They cannot be considered a guarantee of suitability for a specific application. For compliance with local laws in force in the responsibility of the buyer.  
According to Article 35 of the European Parliament and Council Regulation (EC) no. 1907/2006 requires each employer to enable workers and their representatives access to the information from MSDS substances / preparations, the worker uses or whose effects may be exposed during their work.



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