

Date of issue: 2012-06-06

MATERIAL SAFETY DATA SHEET
in accordance with Regulation (EC) No. 1907/2006, Annex II

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. CHEMICAL PRODUCT IDENTIFICATION

Product name: SOLAK HYDRO PLUS

1.2. Relevant identified uses of the substance or mixture and uses advised against

For decorative and protective coating of wood and wood-like elements used indoors, e.g. furniture, doors, wall panels. Can be used for varnishing toys and decorations.

1.3. Details of the supplier of the safety data sheet

Manufacturer: Innowacyjno-Wdrożeniowa Spółka z o.o. "SOPUR", Regon No.: 001346500

Address: ul. Wojska Polskiego 65, 85-825 Bydgoszcz

Tel.: 52 587 23 40; **fax:** 52 587 23 45;

e-mail: office@sopur.com.pl;

Person responsible for developing this MSDS: Krzysztof Kosakowski; e-mail: kkosakowski@sopur.com.pl

1.4. Emergency telephone number

52 587 23 85 hours: 7:00-15:00.

SECTION 2. Hazards identification

2.1.1 Classification of the substance or mixture acc. to Directive 1999/45/EC

The product is not classified as hazardous but contains hazardous substances with a concentration sufficient to list them in section 3; the product requires a material safety data sheet in accordance with the Regulation (EC) 1907/2006, as amended.

2.1.2 Classification acc to the Regulation (EC) No. 1272/2008 of the European Parliament and the Council of 16 December 2008

The product has not been classified as harmful according to the criteria of the Regulation (EC) No. 1272/2008, as amended and revised.

2.2. Label elements

Product identifier: SOLAK HYDRO PLUS

Manufacturer: Innowacyjno-Wdrożeniowa Spółka z o.o. "SOPUR", Regon No.: 001346500

Address: ul. Wojska Polskiego 65, 85-825 Bydgoszcz

Tel.: /+48 52/ 587 23 40

Pictograms: NONE

Warning note: NONE

Risk phrases: NONE

Precautionary statements:

P261 Avoid breathing spray.

P273 Avoid release to the environment.

P391 Collect spillage.

P280 Wear protective gloves.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name of the product

Composition of additives, assisting agents and pigments in a water-dispersed acrylic resin.

Information on hazardous components

Chemical name	Content, %	CAS No. EC number	REACH registration No.	Index number	Substance classification
(2-methoxy-methylethoxy) propanol*	up to 8,5	34590-94-8 252-104-2	-	-	-
2-butoxyethanol *	up to 5	111-76-2	01-2119475108-36- xxxx	603-014-00-0	Xi; R36/38 R20/21/22 Acute Tox. 4 H332 Acute Tox. 4 H312 Acute Tox. 4 H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315
2-methylpentane-2,4-diol	up to 5	107-41-5 203-489-0	-	603-053-00-3	Xi; R36/38 Eye Irrit. 2 H319 Skin Irrit. 2 H315

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propan-2-ol	up to 5	67-63-0 200-661-7	01-2119457558-25- xxxx	603-117-00-0	F; R11 Xi; R36 R67 Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
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* The substance with the highest concentration on a work place allowed in the European Community.
 See section 16 for full wording of R and H phrases.

SECTION 4: First-aid measures

4.1. Description of first aid measures

Inhalation.

Bring out to fresh air, lay the patient in a half-upright position, keep at rest, protect against chill. Seek medical advice if the respiratory route is irritated.

Eye contact.

Flush the exposed eyes under a water stream for at least 15 minutes. Provide ophthalmologist's assistance.

Skin contact.

Remove the contaminated clothes, wash the skin with copious amount of water with soap.

Accidental swallowing.

Do not induce vomiting. Medical assistance is required.

4.2. Most important symptoms and effects, both acute and delayed

Prolonged contact with skin may result in irritation; symptoms may be delayed.

4.3. Indication of any immediate medical attention and special treatment needed

Administer oxygen to an unconscious person.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Non-flammable; select extinguishing media adequately to fire sources.

5.2. Special hazards arising from the substance or mixture

Do not inhale smoke during fire.

5.3. Advice for firefighters

Wearing self-contained breathing apparatus is required when extinguishing fire.

Do not release the used fire water to the soil and ground or surface waters.

SECTION 6: Accidental release measures

6.1. Individual safety measures, personal protection equipment and emergency procedures

While cleaning up spillage and its effects, use personal protective equipment and protective clothes. Provide adequate ventilation. Deny access to unauthorized personnel.

6.2. Environmental precautions

Do not release the product to surface and ground waters.

If surface waters are contaminated, notify respective local authorities immediately.

6.3. Methods and material for containment and cleaning up

Seal or eliminate the leak, e.g. by transferring [pumping] the contents from leaking containers to backup containers.

For larger spills, secure the drains with special mats or catch drains. Bund the spill area, pump out as much product as possible and clean up the remnants or small spillage using absorptive mats or cover with sorbent material, e.g. sand, then collect and transfer for utilization.

6.4. References to other sections

See section 8 for protective equipment and clothes.

See section 13.1 for utilization of absorbents used to clean up product spills.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

In order to prevent irritation while using the product, avoid inhaling vapors and sprays and contact with eyes and skin – work with efficient ventilation being turned on. Follow personal hygiene regulations at work: do not eat or drink, use safety clothes and personal protective equipment.

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7.2. Conditions for safe storage, including any incompatibilities

Store the product in original, adequately labeled and tightly sealed packaging. Protect the containers with the product against freezing - minimum temperature during storage +5°C. Do not allow freezing! Unfrozen product is not suitable for use.

7.3. Specific end-use application(-s)

For decorative and protective coating of wood and wood-like elements used indoors, e.g. furniture, doors, wall panels. Can be used for varnishing toys and decorations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits.

Chemical name	CAS No.	OEL [mg/m ³]	STEL [mg/m ³]
propan-2-ol	67-63-0	900	1200
2-butoxyethanol	111-76-2	98	200
(2-methoxy-methylethoxy) propanol	34590-94-8	240	480

8.2. Exposure controls

Assuming that it is preferred to use adequate technical measures with relation to the personal protective equipment, effective ventilation at the workplace with efficient local exhausts should be provided. Adhere to the instructions specified on the label while using the product. Personal protective equipment should meet the applicable standards specified below.

Hand protection: Use class II safety gloves (ref. Directive 89/686/EEC and EN 374 standard) i.e. made of PVC, neoprene, nitrile or equivalent material. Selection of the material for gloves depends on: degradation, wear rate and permeation. Safety gloves must be tested for use with a given mixture before use, as their durability cannot be predicted. Glove wear rate depends on the exposure to the mixture.

Eye protection: Use tightly fitted safety goggles (ref. EN 166 standard).

Skin protection: Use protective clothing with long sleeves and class II safety shoes designed for professional use (ref. Directive 89/686/EEC and EN ISO 20344:2007 standard). Wash the body with water and soap after taking off the safety clothes.

Respiratory protection: In case of exceeding one or more daily exposure limits for substances of the mixture at a workplace, use respiratory masks with A type filter or universal respirators, class selection (1, 2 or 3) to be defined depending on the permissible working concentration (ref. EN 141 standard).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Color:	selected by customer
Odor:	characteristic
Odor threshold:	not determined
pH:	not determined
Melting/freezing point:	0°C
Onset of boiling:	98-100°C
Flash point:	N.A.
Evaporation rate:	not determined
Flammability:	non-flammable
Upper/lower explosion limit:	N.A.
Vapor pressure:	not determined
Vapor density:	not determined
Relative density:	approx. 1,04 g/cm ³
Solubility:	soluble
Partition coefficient n-octanol/water:	not determined
Auto-ignition temperature:	N.A.
Decomposition temperature:	not determined
Explosive properties:	not shown
Oxidizing properties:	not shown
Viscosity:	not determined
Volatile organic compounds VOC	below 120 g/l; acceptable value for product cat. A/f, type FW: 130 g/l;

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9.2. Other information

None

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions with other substances under normal storage conditions.

10.2. Chemical stability

The mixture is not self-reactive.

10.3. Possibility of hazardous reactions

No information on possible hazardous reactions.

10.4. Conditions to avoid

Temperatures below + 5°C.

10.5. Incompatible materials

Acids (reduced pH will cause acrylic resin coagulation), strong oxidants

10.6. Hazardous decomposition products

There is no thermal decomposition under proper storage and handling.

SECTION 11: Toxicological information

11.1 Inhalation effects

Information on toxicological effects of substances:

Identification	Acute toxicity		Type
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	LD50 oral	>200-2000 mg/kg	Rat
	LD50 skin	>400-2000 mg/kg	Rat
	LC50 inhalation	>2-20 mg/l (4h)	Rat
Propan-2-ol CAS: 67-63-0 EC: 200-661-7	LD50 oral	5280 mg/kg	Rat
	LD50 skin	12800 mg/kg	Rat
	LC50 inhalation	72,6 mg/L (4 h)	Rat
(2-methoxy-methylethoxy) propanol CAS: 34590-94-8	LD50 oral	>5000 mg/kg	Rat
	LD50 skin	9510 mg/kg	Rabbit
	LC50 inhalation	3,35 mg/l (7h)	Rat
2-methylpentane-2,4-diol CAS: 107-41-5	LD50 oral	>2000 mg/kg	Rat
	LD50 skin	>2000 mg/kg	Rat
	LC50 inhalation	>70 ppm	Rat

11.2 Skin contact effects

Repeated or prolonged direct contact with the skin may result in temporary irritation.

11.3 Eye contact effects

Eye splashes may result in irritation or conjunctivitis.

11.4 Indigestion effects

Product indigestion may result in gastrointestinal upset, including vomiting and abdominal pains.

11.5 Acute toxicity after indigestion

Abdominal pains, vomiting and general discomfort.

11.6 Acute toxicity after skin contact

Skin dryness and reddening.

11.7 Toxicity after inhalation

N.A.

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SECTION 12. ECOLOGICAL INFORMATION
12.1 Toxicity

Identification	Acute toxicity		Type	Type
	LC50	>1000 mg/l (96 h)	Poecilia reticulata	Fish
(2-methoxy-methylethoxy) propanol CAS: 34590-94-8	LC50	1919 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	>969 mg/L (96 h)	Selenastrum capricornutum	Algae
	LC50	>1000 mg/l (96h)		Fish
2-methylpentane-2,4-diol CAS: 107-41-5	LC50	>1000 mg/l (48h)	Daphnia magna	Crustacea
	EC50	>429 mg/l (72h)	Pseudokirchneriella subcapitata	Algae
	LC50	9640 mg/L (96 h)	Pimephales promelas	Fish
Propan-2-ol CAS: 67-63-0 EC: 200-661-7	EC50	13299 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	>1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
	LC50	>100 mg/l (96h)	Lepomis macrochirus	Fish
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	EC50	>100 mg/l (24h)	Daphnia magna	Crustacea
	EC50	>100 mg/l (7 days)	Desmodesmus subspicatus	Algae

12.2 Persistence and degradability

No data.

12.3 Bioaccumulative potential:

No data.

12.4 Mobility in soil:

No data.

12.5 Results of PBT and vPvB assessment

No data.

12.6 Other adverse effects

No available data.

SECTION 13. DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods

The collected resin should be handled by a professional waste incineration plant or delivered to a dump and the water layer should be handed over to a wastewater collector or after bringing its reaction to pH=7, to drains.

13.2 Product handling

Unused or expired product, container and spray tool washings and collected spill should be returned to an operator for utilization - do not release to drains.

One of the methods of disposal is extracting the resin from the varnish by adding a specific coagulant for water systems and physical separation of the resin from the liquid phase.

13.3 Packaging handling

Empty or plastic containers flushed with water can be returned to an operator handling collection and utilization of used containers made of metals and plastics - washings should be returned with waste coded 08 01 20.

08 01 12 waste paint and varnish not containing dangerous substances [resins separated from the lacquer]

08 01 20 aqueous suspensions containing paint or varnish [expired or unused product]

15 02 03 used absorbents, wiping clothes used removing spills and splashes of the product

15 01 02 wastes from plastic packaging

15 01 04 wastes from metal packaging

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

14.2. UN proper shipping name:

14.3. Transport hazard class(es)

ADR (road)

classification code

Hazard No.

14.4. Packing group

Warning label No.

14.5. Environmental hazards

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14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of the International Convention for the Prevention of Pollution from Ships, MARPOL 73/78 and the IBC Code

Land transport – classification: the product is not classified as hazardous – RID/ADR regulations do not apply.

The product should be transported in tightly sealed and labeled containers at +5°C minimum – in wintertime use thermally insulated containers or boxes.

SECTION 15. REGULATORY INFORMATION

15.1 Regulations/legislation

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended (Official Journal of the European Union of 2006, Vol. 49, L396, as amended).

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union of 2008, Vol. 51, L 353, as amended).

The Act of 11 January 2001 on chemical substances and preparations (Journal of Laws No. 11, item 84, as amended).

Regulation of the Minister of Health of 5 March 2009 on marking the packages of dangerous substances and preparations (Journal of Laws No. 53 of 2009, item 439, as amended).

Regulation of the Minister of Health of 2 September 2003 on the criteria and method of classification of chemical substances and preparations (Journal of Laws No. 171 of 2003, item 1666, as amended).

Regulation of the Minister of Health of 28 September 2005 on the list of hazardous substances and their classification and labeling (Journal of Laws No. 201 of 2005, item 1674, as amended).

Regulation of the Minister of Environment of 27 September 2001 on waste catalogue (Journal of Laws No. 112, item 1206, as amended).

The Waste Act of 27 April 2001 (Journal of Laws No. 62, item 628, as amended).

The Act of 11 May 2001 on packaging and packaging waste (Journal of Laws No. 63, item 638, as amended).

Regulation of the Minister of Labor and Social Policy of 29 November 2002 on maximum permissible concentration and intensity of agents harmful to health in the working environment (Journal of Laws No. 217, item 1833, as amended).

Regulation of the Minister of Health and Social Policy 26 September 1997 on general principles of work safety and hygiene (consolidated text, Journal of Laws No. 169 of 2003, item 1650, as amended).

The act of 28 October 2002 on road transport of dangerous goods (Journal of Laws No. 199, item 1671, as amended).

Regulation of the Minister of Health of 20 April 2005 on tests and measurements of agents harmful to health in the working environment (Journal of Laws No. 73, item 645, as amended).

15.2 Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture.

SECTION 16. OTHER INFORMATION

16.1. List of relevant hazard statements (H)

Acute Tox. 4	H332 Harmful if inhaled (cat. 4)
Acute Tox. 4	H312 Harmful in contact with skin (cat. 4)
Acute Tox. 4	H302 Harmful if swallowed (cat. 4)
Eye Irrit. 2	H319 Causes serious eye irritation (cat. 2)
Skin Irrit. 2	H315 Causes skin irritation (cat. 2)
Flam. Liq. 2	H225 Flammable liquid and vapour (cat. 2)
STOT SE.3	H336 May cause drowsiness or dizziness (cat. 3)

16.2. List of relevant risk phrases (R)

R11 Highly flammable.

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R20/21/22	Toxic by inhalation, in contact with skin and if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin.
R67	Vapors may cause drowsiness or dizziness.

16.3. Additional information

Use and transport at +5°C minimum.

Information provided in this data sheet is based on our current knowledge and experience and was based on safety data sheets of individual ingredients of the product. This information is not a guarantee of product properties or a specification of quality and may not be the basis for eventual claims.

The information shall not apply to mixtures of the product with other substances.

NOTE: This Material Safety Data Sheet applies to the entire family of SOLAK HYDRO PLUS water-based lacquers, clear and pigmented, in the full range of available color and gloss options offered by Innowacyjno-Wdrożeniowa Spółka z o.o. SOPUR.