

MATERIAL SAFETY DATA SHEET

Made in accordance with REACH Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization 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 200/2 1/EC (published in Official Journal of the European Union no. L396 of December 30, 2006)

Date of preparation: 10.12.2007

Date of revision: 05.05.2009

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SMOŁA I ŻYWICA [TAR AND RESIN] Preparation for removal of tar, asphalt, resin and insects

1. IDENTIFICATION OF THE PREPARATION AND THE MANUFACTURER.

1.1 **Product trade name:** SMOŁA I ŻYWICA
Preparation for removal of tar, asphalt, resin and insects
KTM 19-073

1.2 **Product application:** fluid for removal of tar and resins

1.3 **Manufacturer:**

Name and address of the company: **NANOCHEM Sp. z o.o.**
ul. Schonów 3,
41-200 Sosnowiec

Tel. (032) 317 34 30

1.4. **In case of emergency call:** 042 657 99 00; 042 631 47 67

1.5. Person in charge of MSDS preparation: Anna Nowak, e-mail:
anna@nanochem.com.pl

2. HAZARD IDENTIFICATION

Product has been classified to the hazardous materials pursuant to the provisions of the law.

Health hazards:

Product is irritant; it irritates eyes and skin.

Hazardous properties:

Unknown.

Environment hazards:

Product may be hazardous to the environment due to the change of pH value.

3. COMPOSITION / INFORMATION ON INGREDIENTS

	%	CAS No.	EINECS No.	Risk symbols & R-Phrases *
Sodium hydroxide	1.9%	1310-73-2	215-185-5	C R35
Anionic and non-ionic surfactants	3%	68585-34-2	polymers	Xi R38,41
Ethanol	5%	64-17-5	200-578-6	F, R11
Amine compounds	10%	102-71-6	203-049-8	-

Pursuant to the Regulation (EC) No. 648/2004 Of The European Parliament And Of The Council Of 31 March 2004 On Detergents we provide identification of detergents:

-3% anionic and non-ionic surfactants

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4. FIRST AID MEASURES

Ingestion Make the victim drink water. Do not provoke vomiting. Seek medical advice.
Inhalation Remove the victim from exposure site.
Skin contact Wash affected skin with plenty of water.
Eye contact Flush eyes thoroughly with plenty of water.
NOTE: Persons, whose eyes may be exposed to contact with the product should be aware of the need to immediate flushing the eyes and know how to do it.

5. FIRE-FIGHTING MEASURES

Fire hazard The preparation is non-flammable.
Recommended extinguishing media Fight the fire occurring near the product with use of extinguishing media suitable for burning materials.
Other information If possible, remove containers with product exposed to high temperature from hazardous area; is it not possible – cool them down with dispersed water stream.
Personal Protective Equipment for firemen: Use protective equipment for respiratory ways, protective clothing and acid & alkali resistant hand gloves.

6. ACCIDENTAL RELEASE MEASURES

Prevent from entry of the product into natural environment. In case a large amount of the product has been released to the environment – notify competent authorities.

7. PRODUCT HANDLING AND STORAGE

Product handling: follow the generally accepted safety rules
Storage: store the product in closed, corrosion-resistant containers

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Personal Protective Equipment (“PPE”) used should meet requirements stipulated in the Ordinance of the Economy, Labour and Social Policy Minister of December 21,2005 on Essential Requirements for Personal Protective Equipment (Published in Journal of Laws No. 259, Item 2173).

Respiratory way protection not required
Eye protection: not required
Skin protection: not required

Exposure control:

Threshold level values:

ethanol: TLV=1900 mg/m³
Sodium hydroxide TLV=0.5 mg/m³ TLV-STEL=1 mg/m³
Anionic and non-ionic surfactants not determined

(the foregoing TLV and TLV-STEL values were taken from the Ordinance of the Minister of Labour and Social Policy of November 29, 2002 on Maximum Admissible Concentrations and Intensities of

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Agents Harmful to Health In Work Environment (Published in Journal of Laws No. 217/2002, Item 1833 as amended; Journal of Laws No. 212 of October 10, 2005, item 1769).

Note:

Is the concentration of the given substance determined and known, PPE should be selected pursuant to the concentration of the given agent at the workplace, time of exposure and type of work performed by an employee. In emergency conditions, if concentration of the agent at the workplace is not known, PPE of the highest recommended class should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance at 20°C liquid	Colour: transparent to straw coloured	Odour: Characteristic	
Boiling point [°C] 100 °C	Melting point [°C] -1 °C	Flash point [°C] not applicable	Autoignition point [°C] not applicable
Upper explosion limit [% V/V] not applicable	Lower explosion limit [% V/V] not applicable	Vapour pressure [hPa] at 180°C not applicable	
Density at 20°C [kg/m ³] 1032 kg/m³	pH 13.26(+/-0.5 pH)	Viscosity at 20°C [mPa s]. no data available	
Refractive index no data available	Solubility in water very good	Solubility in organic solvents no data available	
Flammability non-flammable	Oxidizing properties not determined	Explosive properties not applicable	
n-octanol/water separation factor not applicable	Other properties -		

10. STABILITY AND REACTIVITY

Conditions and materials to avoid product is stable in normal conditions

Materials to avoid product is non-reactive in normal conditions

Hazardous decomposition products: no data available

11. TOXICOLOGICAL INFORMATION

Toxic concentration and dose: no data available

Prolonged exposure to highly concentrated product may cause skin degreasing

Toxicological data for anionic and non-ionic surfactants:

Acute toxicity - Ingestion: LD50 - 2000 mg/kg (rat)

Acute toxicity - Skin: LD50 - no data available

Acute toxicity - Inhalation: LC50 - no data available

Toxicological data for sodium hydrochloride:

Acute toxicity - Ingestion: LDLO - 500 mg/kg (rabbit)

Eye irritation: irritant to eyes

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Toxicological data for ethanol:

Acute toxicity - Ingestion: LD50 6200 mg/kg (rat)
Acute toxicity - Skin: LD50 >20000 mg/kg (rabbit)
Acute toxicity - Inhalation: LC50 >8000 mg/kg/0,5h (rat)

12. ECOLOGICAL INFORMATION

Bio-degradability: pursuant to the characteristics of the ingredients, the product is biodegradable in approx. 80%.

Data for classification of sodium hydrochloride:

Acute toxicity for fish LC50 45.5 mg/l/96h (*Onchorhynchus mykiss*)
Acute toxicity for fish LC50 99 mg/l/48h (*Limnea macrochirus*)
Acute toxicity for water flea EU50 76mg/l/24h (*Daphnia magna*)

Data for classification of ethanol

Acute toxicity for fish LC50 8140 mg/l/48h
Acute toxicity for invertebrate EC50 9266-14221 mg/l/48
Acute toxicity for algae EC50 5000 mg/l/7h
Prevent from entry of the product to ground waters, water reservoirs and sewage systems.

13. DISPOSAL CONSIDERATIONS

Follow the regulations stipulated in *the Law On Wastes of April 27, 2001* (as amended) and *Law on Packaging and Packaging Wastes of May 27, 2001* (as amended) published in Journal of Laws No. 62 Item 628 and 63, Item 638, respectively.

Destroy the wastes in accordance with waste disposal regulations.

Waste codes:

Product - 07 07 04 - other organic solvents, washing liquids and mother liquids
Unit packaging - 20 01 39 – plastics
Master carton boxes: - 20 01 01 – paper and cardboard

14. TRANSPORT INFORMATION

ADR/RID – not applicable

15. REGULATORY INFORMATION

Chemical Substance and Preparation Act of January 11, 2001 (published in Journal of Laws No. 11 of February 14, 2001 Item 84 as amended).

Product Classification in accordance with Ordinance of the Minister of Health of September 2, 2003 on Criteria and Way of Substance and Preparation Classification (published in Journal of Laws No. 171, Item 1666 as amended, published in Journal of Laws No. 243/2004, item 2440).

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The product should be handled in compliance with provisions stipulated in Chapter IV, Section 6, let. D of the Ordinance of the Minister of Labour and Social Policy of September 26, 1997 On General Provisions of Occupational Health and Safety (Published in Journal of Laws No. 129 Item 824) as amended (published in Journal of Laws No. 91 / 2002 Item 811)

Packagings shall be labelled in accordance with the Ordinance of the Minister of Health of September 2, 2003 On Labelling of Packagings With Hazardous Substances and Preparations (published in Journal of Laws No 173 Item 1679 as amended (published in Journal of Laws 260/2004, Item 2595)

R36/38 Irritating to eyes and skin

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 After contact with skin, wash immediately with plenty of water.

S2 Keep out of the reach of children

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Xi- irritant

16. ADDITIONAL INFORMATION

All data provided in this Safety Data Sheet are based on our current knowledge of and experience in product handling and have been provided for consideration of safety requirements. This documents is not intended and may not be deemed as any guarantee of the product quality.

The employer shall inform all employees, who may have contact with the product, of all hazards, risks and PPE referred to in this Material Safety Data Sheet.

This Material Safety Data Sheet has been prepared on the basis of MSDSs for individual ingredients provided by their suppliers, tests carried-out and upon consideration of effective legal regulations concerning hazardous chemical substances and preparations.

Risk R-phrases:

R11 – Highly flammable

R35 – Causes severe burns.

R36/38 – Irritating to eyes and skin.