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 200/21/EC (published in Official Journal of the European Union no. L396 of December 30, 2006)

Date of preparation: 01.06.2007

#### Date of revision: 14.04.2008

Page 1/7

KOKPIT BŁYSK (19-005 - 19-016)

## 1. IDENTIFICATION OF THE PREPARATION AND THE MANUFACTURER

1.1 **Product trade name:** KOKPIT BŁYSK

Product code: 19 - 005 - 19-016

1.2 **Product application:** cleaning and preservation of plastic components

### 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 fax (032) 317 34 32

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 harmful, when ingested, it may cause lung damage; vapours may cause drowsiness and dizziness. It is irritating and causes skin irritation.

### Hazardous properties:

Product is extremely flammable and forms flammable vapour-air mixture.

### **Environment hazards:**

Product does not constitute any hazard to environment. Avoid its discharge to the environment.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	%	CAS No.	EINECS No.	Risk symbols & R-Phrases <sup>*</sup>
n-hexane	< 2%	110-54-3	203-777-6	F, Xn, Repro, Cat. 3, R11, R38, 48/20, R51/53, R65, R67
Ethanol	< 3%	64-17-5	200-578-6	F, R11
Isopropyl alcohol	< 8%	67-63-0	200-661-7	F, Xi, R:11, 36, 67
light hydrogen treated naphtha (petroleum),	<19%	64742-49-0	265-151-9	Xn, R65*
Isobutane	<35%	75-28-5	200-857-2	F⁺, R12

(\*) notes H & P taken into account for classification.

Preparation is not classified to carcinogenic agents pursuant to the manufacturer's declaration.

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 200/21/EC (published in Official Journal of the European Union no. L396 of December 30, 2006)

Date of preparation: 01.06.2007

#### Date of revision: 14.04.2008

Page 2/7

### KOKPIT BŁYSK (19-005 - 19-016)

### 4. FIRST AID MEASURES

Ingestion	Rinse mouth with water. Do not give anything to eat/drink to the victim. Do not provoke vomiting. Consult the case with physician, showing him the product label.
Inhalation	Remove the victim from exposure site to fresh air and keep at rest. If the symptoms (cough, vomiting, dizziness, wheezing) persist - seek medical advice. Put unconscious victim on a side position.
Skin contact	Remove contaminated clothing. Wash affected skin with hot water and soap. In case of skin irritation- seek medical advice.
Eye contact	Remove immediately contact lenses if used by the victim. Flush eyes thoroughly with plenty of water, keeping eyelids open. Seek advice of ophthalmologist.
<u>Note</u> :	Persons, whose eyes may be exposed to contact with the product should be aware of the need to immediate flush the eyes and know how to do it.

### 5. FIRE-FIGHTING MEASURES

Fire hazard	The preparation is flammable. Products of incomplete combustion bear carbon monoxide. Vapours and aerosols form explosive mixture with air. Vapours are heavier than air and accumulate around the floor and lower part of the premises.
Recommended extinguishing media	Extinguishing foam and powders. Fight large fire with (dispersed) water; extinguish little fire with use of powder or $CO_2$ . Do not use concentrated water stream. If possible, remove containers with product exposed to fire or high temperature from hazardous area; should it be not possible – cool them down with dispersed water stream.
Personal Protective Equipment for firemen:	Use full protective suit and self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Prevent from entry of the product into natural environment.

Environment Precautions:	for entry of the product into environment: drains, soil, water reservoirs and surface waters. If possible, return the product for re-use. Absorb residual contamination with use of absorbing agent: sand, diatomite or
	other absorbing material. Flush contaminated area with plenty of water. Put the wastes into appropriate containers and incinerate them in suitable incinerator or dispose to designated disposal yard. Observe local regulations.
Other recommendations	Product is lighter than water and floats at the water surface.

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 200/21/EC (published in Official Journal of the European Union no. L396 of December 30, 2006)

Date of preparation: 01.06.2007

#### Date of revision: 14.04.2008

Page 3/7

#### KOKPIT BŁYSK (19-005 - 19-016)

### 7. HANDLING AND STORAGE

When handling and storing the product, follow the applicable occupational health & safety regulations.

Handling:	Do not eat or drink while handling the product. Avoid contact with liquid. Respect rules for personal hygiene. Wear protective clothing and use PPE. Do not inhale vapours coming from aerosol
Fire and explosion prevention	Eliminate ignition sources – do not smoke, use naked flame or sparking tools; do not wear clothing, which is susceptible for accumulation of electrostatic charges. Take proper precautions for avoidance of electrostatic discharges. Pressurized containers. Protect from sunlight and temperature above 50°C. Do not pierce or burn even after use. Do not spray on a naked flame or on any incandescent material. Keep away from ignition sources. Do not smoke when spraying.
Storage:	Store the product in original tightly closed containers. Do not store in the vicinity of fire and heat sources. Observe prohibition of smoking and of use of naked flame and sparking tools in storage area. Storage place should be dry and equipped with gravitational ventilation. Storage temperature: $-10$ to $+ 25^{\circ}$ C.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

### Requirements to be met by Personal Protective Equipment (PPE):

PPE should meet requirements stipulated in the Ordinance of the Economy, Labour and Social Policy Minister of March 31,2003 on Essential Requirements for Personal Protective Equipment (Published in Journal of Laws No. 80, Item 725).

Respiratory way protection Use when ventilation is insufficient.

Eye/face protection:	Wear tight protective goggles and face mask.
Skin protection:	Wear protective gloves made of rubber.
Technical protection	Provide general ventilation system in the area of product use.
measures	

Threshold level values:

Isopropyl alcohol:	TLV=900 mg/m <sup>3</sup> ;
light hydrogen treated naphtha	TLV=300 mg/m <sup>3</sup> ; TLV-STEL=900mg/m <sup>3</sup> ;
ethanol:	TLV=1900 mg/m <sup>3</sup>
n-hexane	TLV=72 mg/m <sup>3</sup> TLV-STEL=400 mg/m <sup>3</sup>
Values of TLV and TLV-STEL for isobutane are not de	
similar properties to isobutane are following:	TLV=1900 mg/m <sup>3</sup> TLV-STEL=3000 mg/m <sup>3</sup>

(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 Agents Harmful to Health In Work Environment (Published in Journal of Laws No. 217/2002, Item 1833 as amended; Journal of Laws No. 212, item 1769 of 10.10.2005).

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 200/21/EC (published in Official Journal of the European Union no. L396 of December 30, 2006)

Date of preparation: 01.06.2007

#### Date of revision: 14.04.2008

Page 4/7

#### **KOKPIT BŁYSK** (19-005 - 19-016)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

	Appearance at. 20°C Colour: liquid in aerosol container transparent to straw colour			с	Odour: haracteristic (depends on the fragrances added)
Boiling point [°C] no data available		g point [°C] Flash point [°C] a available below 0 °C		]	Autoignition point [°C] no data available
Upper explosion limit no data availal			Lower explosion limit [% V/V] no data available		pour pressure [hPa] at 180°C no data available
Density at 20°C [k approx. 850 kg	• •	рН <b>not applicable</b>		Viscosity at 20°C [mPa s]. no data available	
Refractive inde no data availa			ity in water soluble		olubility in organic solvents uble in most organic solvents
Flammability flammable	Flammability <b>flammable</b>		Oxidizing properties not applicable		Explosive properties ne product itself does not ve explosive properties, but nay form explosive vapour- air mixtures
n-octanol/water sep factor <b>no data availa</b> l		Other properties -			

### 10. STABILITY AND REACTIVITY

Conditions to avoid	heating of the preparation to the temperature > 50°C, exposure to direct sunlight, contact with hot surfaces, incandescent materials, ignition sources, presence of electrostatic discharges			
Materials to avoid	mineral oxidizing acids, nitrides, organic peroxides and hydrogen peroxides, oxidizers and reducers			
Hazardous decomposition products:	no data available			

## 11. TOXICOLOGICAL INFORMATION

## Toxicological data for n-hexane (acc. to ESIS):

Acute toxicity - Ingestion:	LD50 >2000 mg/kg (rat)
Acute toxicity - Skin:	LD50 >2000 mg/kg (rabbit)
Acute toxicity - Inhalation:	LC50 >20 mg/kg/0,5h (rat)

### Toxicological data for ethanol (acc. to ESIS):

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)

## Toxicological data for isopropyl alcohol (acc. to ESIS):

Acute toxicity - Ingestion:	LD50 5045 mg/kg (rat)
Acute toxicity - Skin:	LD50 1200 mg/kg (rabbit)
Acute toxicity - Inhalation:	LC50 16000 ppm/8h (rat)

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 200/21/EC (published in Official Journal of the European Union no. L396 of December 30, 2006)

Date of preparation: 01.06.2007	Date of revision: 14.04.2008	Page 5/7	
KOKPIT BŁYSK (19-005 - 19-016)			
Acute toxicity Inhalation Skin contact:	Not applicable Product may cause headache, dizziness, nausea and vo Product may cause skin irritation and dryness leading to inflammation.	-	
Eye contact:	Product may cause infection of conjunctiva.		
Ingestion:	Stomach-ache, nausea and vomiting. Product may oesophagus and alimentary canal. When drawn to pneumonia may be a result.		
	Effects of chronic or prolonged exposure: strong irrita membranes of eyes and respiratory ways, lacrin headache, dizziness, stomach ache.		
Allergic effects:	None		
Chronic effects	None		
Mutagenic effects	None		
Carcinogenic effects	None		
Reproduction effects:	None		

## 12. ECOLOGICAL INFORMATION

The product is very volatile, and when released to aquatic environment, it quickly evaporates to the atmosphere. In the air, the product decomposes quickly.

## 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	– 16 05 05 – gases in containers other than specified in 16 05 04
	- 07 07 04 - other organic solvents, washing liquids and mother liquids
Unit packaging	<ul> <li>– 15 01 05 – Steel cans. Composite packaging</li> </ul>
	- 20 01 39 - Attachments. Plastics
Master cartoon boxes:	– 20 01 01 – Paper and cardboard

## 14. Transport information

Proper shipping name:	Kokpit Błysk Aerosols
UN-No.:	1950
ADR Class:	2
Classification code:	2/5F
Packaging Group:	II
Hazard ID No.	20
Label-no.	2

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 200/21/EC (published in Official Journal of the European Union no. L396 of December 30, 2006)

Date of preparation: 01.06.2007

#### Date of revision: 14.04.2008

Page 6/7

#### KOKPIT BŁYSK (19-005 - 19-016)

## 15. **REGULATORY INFORMATION**

*Chemical Substance and Preparation Act of January 11, 2005* (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).

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)

- R12 Extremely flammable
- R36/38 Irritating to eyes and skin
- R65 Harmful: may cause lung damage if swallowed
- R67 Vapours may cause drowsiness and dizziness
- S2 Keep out of the reach of children
- S16 Keep away from sources of ignition do not smoke.
- S23 Do not breathe vapour.
- S24 Avoid contact with skin.
- S25 Avoid contact with eyes.
- 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.
- S45 In case of accident or if you feel unwell, seek medical advice immediately show the label whenever possible
- S51 Apply only in well ventilated rooms

S62 In case of swallowing, do not cause vomiting; seek medical advice immediately and show the packaging or label





Extremely flammable

irritant

Note: Labels shall additionally bear following advice:

"Pressurized container. Protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or on any incandescent material. Keep away from ignition sources – do not smoke when using. Keep out of reach of children".

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 200/21/EC (published in Official Journal of the European Union no. L396 of December 30, 2006)

Date of preparation: 01.06.2007

#### Date of revision: 14.04.2008

Page 7/7

#### KOKPIT BŁYSK (19-005 - 19-016)

## 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
- R12 Extremely flammable
- R36 Irritating to eyes
- R38 Irritating to skin

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation

- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed
- R67 Vapours may cause drowsiness and dizziness