

GRUPA DYNAMIC SP. Z O.O. SP. K.	<b>SAFETY DATA SHEET</b> according to Regulation (EC) No.1907/2006 (REACH) as amended	<b>Date of preparation:</b> 23.02.2017 <b>Version:</b> 1.1 <b>Update date:</b> 13.07.2017 <b>Page:</b> 1 of 9
	NICOTINE BASE 18mg/ml	

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

NICOTINE BASE 18mg/ml

### 1.2 Relevant identified uses

Recommended use: the liquid for refilling of the electronic cigarettes.

Uses advised against: not specified.

### 1.3 Details of the supplier of the Safety Data Sheet

Supplier: GRUPA DYNAMIC SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SP. K.

Address: ul. 11 Listopada 2/4, 42-400 Zawiercie

Telephone/Fax number: +48 537400490

E-mail address of competent person responsible for the SDS: dynamic24info@gmail.com

### 1.4 Emergency telephone number

112, +48 537400490 (availability: monday-friday 8am-4pm)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Ordinance no 1272/2008 (CLP)		
Health risk phrases	Environment risk phrases	Physicochemical risk phrases
Acute Tox. 4 H302 Harmful if swallowed.	Not applicable	Not applicable

### 2.2 Label elements

Signal word and hazard pictograms:



Warning

Hazardous components listed on the label:

Contains: nicotine.

Risk phrases:

Acute Tox. 4 H302 Harmful if swallowed.

Safety advices:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash hand thoroughly after handling.

P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

Additional information:

-

### 2.3 Other hazards

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Mixture doesn't meet the criteria for vPvB according to Regulation (EC) No 1907/2006, Annex XIII

### SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

Name	Identification of the substance	Ordinance 1272/2008		Concentration
		Hazard class	Statement H	
Glycerol	<b>CAS:</b> 56-81-5 <b>EC:</b> 200-289-5 <b>Index no:</b> - <b>REACH registration no:</b> -	Not classified	Not classified	50-60%
Ethanol	<b>CAS:</b> 64-17-5 <b>EC:</b> 200-578-6 <b>Index no:</b> 603-002-00-5 <b>REACH registration no:</b> 01-2119457610-43XXXX	Flam. Liq. 2 Eye Irrit. 2	H225 H319	≤1%
Nicotine <sup>1)</sup>	<b>CAS:</b> 54-11-5 <b>EC:</b> 200-193-3 <b>Index no:</b> 614-001-00-4 <b>REACH registration no:</b> -	Acute Tox. 1 acute Tox. 3 Aquatic Chronic 2	H310 H301 H411	>1,2≤1,6%

<sup>1)</sup>Substance with Union occupational exposure limit values

Full text of H phrases please see section 16 of this SDS.

### SECTION 4: FIRST AID MEASURES

#### After inhalation:

Remove person to fresh air. Call a doctor if you feel unwell.

#### After skin contact:

Take off immediately all contaminated clothing. Finely wash skin first with water with soap, then with plenty of water. Get medical advice/attention if you feel unwell.

#### After eye contact:

Remove contact lenses, if present and easy to do. Rinse the eyes with plenty of water with obtuse eyelids for 10-15 minutes. Avoid strong water jet - the risk of corneal damage. If eye irritation persists: Get medical advice/attention.

#### After ingestion:

Do not induce the vomiting. Rinse mouth. If it's needed, contact a doctor. Have product container or label at hand. Never give anything by mouth to an unconscious person

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

After inhalation: In case of exposure above the NDS, symptoms of acute nicotine poisoning are: agitation of breath, nausea, vomiting, pain and dizziness, diarrhea, tachycardia, blood pressure increase, sweating and salivation, burning in the mouth, throat and stomach.

After skin contact: Irritation, redness, dry skin, sensitive people allergic reaction. Nicotine contained in the product is absorbed through the skin, therefore, with long-term contact with the

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skin, the symptoms may be the same as if swallowed: breathing problems, dizziness, cramps, vomiting, vomiting, and death.

After eye contact: redness, lachrymation, momentary irritation

After ingestion: Nausea, vomiting, diarrhea, in extreme cases after drinking a very large amount of product symptoms of poisoning: nausea, respiratory problems, dizziness, respiratory disorders.

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

In case of doubt or symptoms seek medical advice. The decision on the method of treatment will be decided after a thorough medical examination of the injured.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: carbon dioxide, foam, dry chemical, water fog. Fire fighting agents should be adapted to the burning environment.

Not recommended extinguishing media: serried water- the danger of the spread of fire

#### 5.2 Special hazards arising from substance or mixture

Hazardous decomposition products in the event of fire: carbon monoxide, carbon dioxide, acrolein. Avoid inhalation of combustion products can pose health risks .

#### 5.3. Advice for firefighter

Wear a self-contained breathing apparatus and protective firefighting equipment (fire helmet, jacket, trousers, shoes and gloves). Use clothing that is resistant to high temperatures and chemicals. Threatened containers should be cooled with distilled water jet from a safe distance.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures.

Limit the access of outsiders to the crash site. Use personal protective equipment. Section 8 of the safety data sheet. In case of large leakage, isolate the affected area. Avoid contact with eyes and skin. Avoid direct contact with the release product. Ensure adequate ventilation. Do not pass over spilled material (risk of slipping). Remove any source of ignition, extinguish the fire.

#### 6.2 Environmental precautions

Avoid splashing of the mixture into drains, surface water and soil. In case of large amounts of spillage into the environment, inform the appropriate emergency services

#### 6.3 Methods and materials for containment and cleaning up

Secure damaged container against further leakage. Sprinkle with absorbent material (eg sand, earth, universal binder, silica, vermiculite, etc.), collect into a labeled waste container and dispose of it for disposal. Flush the contaminated surface with water.

#### 6.4 Reference to other sections

For personal protection see section 8.

Information on waste handling is provided in section 13

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid eye and skin contamination, avoid inhaling vapors and aerosols. Ensure adequate

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ventilation of rooms. Wash your hands with plenty of soap and water before breaks and after work. When working with the mixture, do not eat, drink or smoke. Unused containers must be tightly closed.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep product in original, tightly sealed containers in a cool and well-ventilated place, away from light, sparks, flames, heat and sources of ignition. Do not store with any food. Keep away from strong oxidants, strong acids and bases. Protect from sunlight. After opening the container seal and store in a vertical position to prevent leakage of the product.

## 7.3 Specific end use(s)

No information on applications other than those listed in subsection 1.2.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

### Occupational exposure limit values

Nicotine CAS No.:54-11-5

Limit value type : TWA

Limit value: 0.5mg/m<sup>3</sup>

*In accordance with 2006/15/EC*

DNEL/PNEC: lack of data

### Recommended monitoring procedures:

Use the procedures for monitoring the concentrations of dangerous components in Air and workplace air quality control procedures - if available and justified in a given position - in accordance with the relevant Polish or European Standards, taking into account the exposure conditions and appropriate measurement methodology adapted to working conditions.

## 8.2. Exposure controls

Personal protective equipment used must meet the requirements of Directive 89/686 / EC (as amended).

### Appropriate engineering controls

Ventilation of rooms.

### Eye or face protection

Not required. In case of possibility to contact with eyes, use safety glasses.

### Skin protection

Protective gloves, when working with large quantities. Recommended material: nitrile rubber. Short-term contact: performance level 2 or higher. Wear protective clothing.

### Respiratory protection

Not required while proper using. In case of insufficient ventilation or in emergency situations wear a protective mask with organic filters.

### Thermal hazard

Not detected.

### Environmental exposure control

Avoid large quantities of product entering drains, groundwater, sewage or soil. Any emissions from process systems and equipment should be checked to determine their compliance with the requirements of environmental protection laws.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

- |   |  |
|---|--|
| a) Appearance                                   | :colorless liquid                      |
| b) Odour  | :characteristic for flavour            |
| c) Odour threshold                              | :not determined                        |
| d) pH   | :not determined                        |
| e) Melting point/freezing point                 | :not determined                        |
| f) Initial boiling point and boiling range      | :>35°C                                 |
| g) Flash point                                  | :>61°C                                 |
| h) Evaporation rate                             | :not determined                        |
| i) Flammability (solid, gas)                    | :not determined                        |
| j) Upper/lower flammability or explosive limits | :not determined                        |
| k) Vapour pressure                              | :not determined                        |
| l) Vapour density                               | :not determined                        |
| m) Relative density (20°C)                      | :1,1-1,2 g/cm <sup>3</sup>             |
| n) Solubility                                   | :soluble in organic solvents and water |
| o) Partition coefficient: n-octanol/water       | :not determined                        |
| p) Auto-ignition temperature                    | :not determined                        |
| q) Decomposition temperature                    | :not determined                        |
| r) Viscosity                                    | :not determined                        |
| s) Explosive properties                         | :not applicable                        |
| t) Oxidising properties                         | :not applicable                        |

### 9.2. Other information

No other important information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Not known under normal use.

### 10.2. Chemical stability

The mixture is chemically stable under standard conditions of use and the anticipated storage conditions.

### 10.3. Possibility of hazardous reactions

The product can be exothermically reacted with strong oxidants.

### 10.4. Conditions to avoid

Avoid direct sunlight, sources of ultraviolet radiation, sources of heat and fire.

### 10.5. Incompatible materials

Strong oxidizing agents, strong acids, strong alkalis.

### 10.6. Hazardous decomposition products

Lack of data. Products which are formed in a fire environment: refer to sections 5 SDS.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Components toxicity:

##### nicotine:

- |                      |   |
|----------------------|---|
| LD50(oral, rat)      | 50 mg/kg (Farm Chemicals Handbook. Vol.-,Pg.C219,1991)  |
| LD50(dermal, rabbit) | 50 mg/kg (Quarterly Bulletin -Association of Food and Drug Officials of the United States. Vol. 16,Pg. 3, 1952) |
| LD50(dermal, rat)    | 140mg/kg (World Review of Pest Control. Vol.9,Pg. 119, 1970).   |

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In case of exposure above NDS, symptoms of acute intoxication with low doses of nicotine are: agitation of breath, nausea, vomiting, headache and dizziness, diarrhea, tachycardia, blood pressure increase and sweating and salivation. After high doses of nicotine, it was also found burning in the mouth, throat and stomach. Later: exhaustion, convulsions, respiratory failure, cardiac arrhythmias, and motor coordination and coma were impaired.

glycerol

LD50(oral, rat): 12600mg/kg

LD50(dermal, rabbit): >1870mg/kg

#### **Mixture toxicity:**

#### **Acute toxicity:**

Mixture ATEmix oral: 312,5- 2500mg/kg (depends on the concentration of nicotine)

ATEmix dermal: 4375- 35000 mg/kg (depends on the concentration of nicotine)

ATEmix (inhalation): 11,875- 95 mg/L (depends on the concentration of nicotine)

Acute Toxicity (ATEmix) was calculated taking into account the estimated nicotine toxicity (ATE) values according to Commission Regulation 2017/776 / EU of 4 May 2017:

oral: ATE = 5 mg/kg

dermal: ATE = 70 mg/kg

inhalation: ATE = 0.19 mg/L (dusts or mists) ,

Based on available data classification criteria are not met.

#### **Corrosion/skin corrosion:**

Classification criteria are not met.

#### **Eye damage/eye irritation:**

Classification criteria are not met.

#### **Sensitisation to the respiratory tract or skin:**

Classification criteria are not met.

#### **Mutagenic effects on reproductive cells:**

Classification criteria are not met.

#### **Carcinogenicity:**

Classification criteria are not met.

#### **Reproductive toxicity:**

Classification criteria are not met.

#### **Single exposure STOT:**

Classification criteria are not met.

#### **Repeated exposure STOT:**

Classification criteria are not met.

#### **Aspiration hazard:**

Classification criteria are not met.

### **SECTION 12: ECOLOGICAL INFORMATION**

#### **12.1. Toxicity**

The product does not pose a threat to the environment

#### **12.2. Persistence and degradability**

Lack of data.

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### 12.3.Bioaccumulative potential

Lack of data.

### 12.4.Mobility in soil.

No data available. The product is dissolved in water and dispersed in aqueous medium.

### 12.5.Results of PBT and vPvB assessment

Not applicable, components do not meet PBT or vPvB criteria.

### 12.6.Other adverse effects

Significant effects or critical hazards are not known

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1.Waste treatment methods

#### Mixture:

Dispose of in accordance with applicable regulations. Do not pour into swage system.

#### Package:

Recycle / recycle / dispose of waste in accordance with applicable national regulations.

Contaminated packaging treat as waste .

EU legal acts: Directives of the European Parliament and of the Council: 2008/98 / EC and 94/62 / EC

## SECTION 14: TRANSPORT INFORMATION

<b>14.1 UN number (ONZ number)</b>	Not applicable
<b>14.2 UN proper shipping name</b>	Not applicable
<b>14.3. Transport hazard class(es)</b>	Not applicable
<b>14.4. Packing group</b>	Not applicable
<b>14.5. Environmental hazards</b>	Not applicable
<b>14.6. Special precautions for user</b>	Not applicable
<b>14.7.Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code</b>	Not applicable

## SECTION 15: REGULATORY INFORMATION

### 15.1.Safety, health and environmental regulations/legislation specific for the substance or a mixture

- Regulation(EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.
- Regulation (EC) No 1907/2006 / EC 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 No 1488/94 and Directive 76/769 / EEC and Directive 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC, as amended.
- Commission Regulation (EU ) No 2015/830 dated. 28.05.2015r . amending Council Regulation (EC ) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on

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waste and repealing certain Directives

- European Parliament and of the Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste
- Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
- Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
- European agreement concerning the international carriage of dangerous goods by road (ADR)
- Regulation of the Minister of Labour and Social Policy of 6 June 2014 on Maximum Permissible Concentration and Intensity of Agents Harmful to Health in the Working Environment (Dz. u. z. 2014, poz 817).
- Act of 13 June 2013 on the Packaging and Packaging Waste Management (Dz.U. 2013 poz. 888 as amended)
- Act on Waste of 14 December 2012 (Dz.U. 2013 poz. 21 as amended).
- Regulation of the Minister of Economy of 21 December 2005. On the basic requirements for personal protective equipment (Dz.U. Nr 259 , poz. 2173).  
Regulation Of The Minister Of Health Dated 2 February 2011 On Tests And Measurements Of  
(Dz.U.2011 Nr.33 , poz. 166)  
Factors Harmful To Health In The Working Environment
- ACT of 25 February 2011 on the Chemical Substances and Their Mixtures ( Dz.U. Nr 63, poz. 322 as amended)
- 

## 15.2. Chemical Safety Assessment

The assessment of the mixture was not made.

## SECTION 16: OTHER INFORMATION

### Method of classification:

Method of calculation based on the guidelines of Regulation 1272/2008 / EC as amended.

### Abbreviations and acronyms:

NDS Exposure Limit

NDSch Transient Exposure Limit

NDSP Maximum concentrations that can not be exceeded in the work environment in no time

vPvB Substance is very persistent and very high capacity to bioaccumulation

PBT Substance is persistent, bio accumulative and toxic

PNEC Predicted no-effect concentration

DNEL The derived no-effect level

LD50 The dose at which is observed the death of 50 % of the test organisms

LC50 The concentration at which is observed the death of 50 % of the test organisms

EC50 Concentration of test substance causing 50 % change in the reaction (eg. to an increase) in a specific time interval

Acute Tox. 1 Acute toxicity, category 1



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Acute Tox. 3      Acute toxicity, category 3  
 Flam. Liq. 2      Flammable liquid, category 2  
 Eye Irrit 2      Eye irritation, category 2  
 Aquatic Chronic 2      Chronic (long-term) aquatic hazard, category 2

#### **Literature and data sources**

The legal provisions set out in Sections 2 - 15 of the safety data sheet. Information provided from the manufacturer (at least component datasheets), bibliographic data, online databases (eg ECHA, TOXNET), with current legal requirements.

#### **H phrases applied in section 3:**

H225 Highly flammable liquid and vapour.  
 H301 Toxic if swallowed.  
 H310 Fatal in contact with skin.  
 H319 Causes serious eye irritation.  
 H411 Toxic to aquatic life with long lasting effects.

#### **Update 13.07.2017**

Section 1.3      Card supplier addres.  
 Section 1 2.      Classification of the mixture.  
 Section 11.      Toxicity of the mixture.  
 Section 15.      Phrases: H302 and Acute Tox 4 have been explained.

#### **Recommendations for employee training:**

People involved in the marketing of the product should be trained in procedures for handling of chemicals.

The card has been developed on the basis of data provided by the manufacturer, the legal provisions in force at the time of drawing up the SDS and the knowledge. The information contained in the Charter should be treated solely as an aid for safe use as well as for handling, distribution and storage. The card is not a proof of product quality. The information contained in the Card is for the product only and can not be transferred to similar products. The author does not bear liability resulting from misuse of information contained in the SDS.