

# SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

Data of issue: 08.04.2021

Version: 1.0/EN

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

### 1.1 Product identifier

Trade name: **TECHNIPLAST 400 (component A)**

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

Relevant identified uses: chemical product for construction and industry, coating material.

Uses advised against: not determined.

### 1.3 Details of the supplier of the safety data sheet

Manufacturer: **TECHNIART Sp. z o.o.**

Address: Rumiankowa 2 st., Nowa Bukówka, 96-321 Żabia Wola, Poland

Telephone/Fax number: +48 46 857 83 94, +48 46 857 83 95

E-mail address for a competent person responsible for sds: biuro@techniart.pl

### 1.4 Emergency telephone number

112

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, Aquatic Chronic 2 H411**

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

Hazard pictograms and signal words



**WARNING**

The names of substances on the label

Contains: reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight  $\leq 700$ ); oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.  
P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

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P501 Dispose of contents/container to properly labeled waste containers in accordance with national legislation.

## 2.3 Other hazards

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1% by weight.

## Section 3: Composition/information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

reaction product: bisphenol-A-(epichlorhydrin),epoxy resin (number average molecular weight  $\leq$  700)

Concentration range:	80-90%
CAS number:	25068-38-6
EC number:	500-033-5
INDEX number:	603-074-00-8
REACH registration number:	01-2119456619-26-XXXX
Classification:	Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, Aquatic Chronic 2 H411

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Concentration range:	< 5%
CAS number:	68609-97-2
EC number:	271-846-8
INDEX number:	603-103-00-4
REACH registration number:	01-2119485289-22-XXXX
Classification:	Skin Irrit. 2 H315, Skin Sens. 1 H317

propylene carbonate

Concentration range:	< 5%
CAS number:	108-32-7
EC number:	203-527-1
INDEX number:	607-194-00-1
REACH registration number:	01-2119537232-48-XXXX
Classification:	Eye Irrit. 2 H319

benzyl alcohol

Concentration range:	< 5%
CAS number:	100-51-6
EC number:	202-859-9
INDEX number:	603-057-00-5

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REACH registration number: 01-2119492630-38-XXXX  
Classification: Acute Tox. 4 H302, Eye Irrit. 2 H319, Acute Tox. 4 H332  
Full text of each relevant H phrase is given in section 16 of SDS.

## Section 4: First aid measures

### 4.1 Description of first aid measures

Skin contact: take off contaminated clothing immediately. Wash contaminated skin with a large amount of water and soap. In case of irritation, consult a doctor.

Eye contact: consult an ophthalmologist in case of irritation. Protect non-irritated eye, remove contact lenses. Wash contaminated eye thoroughly with plenty of water for 10-15 minutes. Avoid strong stream of water – risk of damage of the cornea.

Ingestion: do not induce vomiting. Rinse mouth with water. Do not drink alcohol! Never give anything by mouth to an unconscious person. Contact a doctor immediately, show label or packaging.

Inhalation: remove the victim to fresh air. Keep warm and calm. Contact a doctor.

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

Skin contact: redness, dryness, pruritus, rash, irritation or other skin changes.

Eye contact: redness, tearing, burning, irritation.

Inhalation: in case of high vapor concentration possible irritation of the respiratory tract, coughing, difficulty in breathing, breathlessness.

Ingestion: stomach pain, nausea, vomiting, malaise.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

## Section 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: CO<sub>2</sub>, extinguishing powder, extinguishing foam.

Unsuitable extinguishing media: water jet – risk of fire propagation.

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

In case of fire, may produce irritating and toxic vapours and gases containing, e.g. carbon oxides, phenols. Avoid inhalation of combustion products, they can be dangerous for human health.

### 5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. The extinguishing water should not be allowed to enter drains, surface and ground waters. In case of fire, cool endangered containers with water spray from the safe distance.

## Section 6: Accidental release measures

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

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that the effects of breakdown are removed only by properly trained personnel. In case of large spills, isolate the exposed area.

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Wear personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation. Do not inhale vapours.

## 6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

## 6.3 Methods and material for containment and cleaning up

Collect spilled product using liquid-binding materials (eg. sand, soil, universal binding substances, silica, etc.). Clean the contaminated place.

## 6.4 Reference to other sections

Appropriate conduct with waste product – section 13. Personal protective equipment – section 8.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Avoid eyes and skin contamination. Do not allow the product to enter the mouth. Avoid inhale vapours. Ensure adequate general and/or local ventilation. Wear personal protective equipment.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in properly labelled, tightly sealed containers in a dry, cool and well ventilated place. Keep away from food, foodstuffs, animal feed. Recommended storage temperature: 15-40°C. Avoid fire, direct sunlight. Opened container should be resealed and kept upright to prevent leaking. Do not store in non-labelled containers.

### 7.3 Specific end use(s)

Chemical product for construction and industry, coating material.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

There are no occupational exposure limit values at working place for the substances present in the mixture at the European Union level. Please check any national occupational exposure limit values in your country.

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

Great Britain:

The product does not contain any components which are subject to control exposure in the workplace.

EH40/2005 Workplace exposure limits. Fourth Edition 2020.

DNEL (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight  $\leq$  700))

worker (inhalation, acute toxicity)	12,25 mg/m <sup>3</sup>
worker (skin, acute toxicity)	8,33 mg/kg/day
consumer (inhalation, acute toxicity)	226 mg/m <sup>3</sup>
consumer (skin, acute toxicity)	3,571 mg/kg/ day
consumer (oral, acute toxicity)	0,75 mg/kg/ day

DNEL (benzyl alcohol)

worker (inhalation, acute toxicity)	450 mg/m <sup>3</sup>
worker (skin, acute toxicity)	47 mg/kg/ day
consumer (inhalation, acute toxicity)	95,5 mg/m <sup>3</sup>
consumer (skin, acute toxicity)	28,5 mg/kg/ day
worker (oral, acute toxicity)	25 mg/kg/ day

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PNEC (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight  $\leq$  700))

fresh water	0,006 mg/l
marine water	0,0006 mg/l
STP	10 mg/l
soil	0,196 mg/kg

PNEC (benzyl alcohol)

marine water sediment	0,527 mg/kg
fresh water	1 mg/l
STP	10 mg/l
soil	0,456 mg/kg

## 8.2 Exposure controls

Appropriate engineering controls

Observe good occupational hygiene and safety practices. Avoid eyes and skin contamination. Take off contaminated clothes immediately. Ensure good general and/or local ventilation at workplace to ensure the maintenance of concentrations of hazardous components in the atmosphere below the permissible limit values. Do not eat, drink, smoke or take medications when using the product. Wash hands thoroughly before breaks and after work.

Individual protection measures, such as personal protective equipment

The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand protection

Wear chemical resistant gloves and protective clothing. Recommended material for gloves: PVC, butyl rubber, neoprene, viton. In the case of short-term contact: gloves with protection class 1 or higher are recommended. In case of prolonged contact: gloves with protection class 6 are recommended (EN 374).

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed. It is recommended replacement the gloves, if there are any signs of wear, damage or change in appearance (color, elasticity, shape).

Eye protection

Wear tightly fitting protective glasses (EN 166).

Body protection

Protective clothes adequate to potential risk should be worn according to performed task.

Respiratory protection

A properly fitted, contained breathing apparatus equipped with an absorber or filtering-absorber that is compliant with the approved standard should be used when a risk assessment indicates this is necessary. The selection of the respiratory mask should be made on the basis of the known or expected level of exposure, the danger of the product and the safety limits of the selected mask. Protection classes (class 1/protection against gases or vapours with a concentration in the air volume not exceeding 0.1 %, class 2 / protection against gases or vapours with a concentration in the air not exceeding 0.5%, class 3 / protect against gases or vapours at concentrations in the air volume to 1 %). In cases where the oxygen concentration is  $\leq$  19 % and / or maximum concentration of toxic substances in the air is  $\geq$  1.0 % by volume breathing apparatus should be used.

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Thermal hazards

Do not occur.

Environmental exposure controls

Prevent release to the sewerage/ surface waters. Surface waters and drains must not be contaminated with chemicals and used containers. Spilled product or uncontrolled leakages to surface waters should be notified to relevant emergency services according to local and national legislation. Product should be disposed as chemical waste, according to local and national legislation.

## Section 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

Physical state	liquid
Colour	colourless to light yellow
Odour	characteristic, weak
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	not applicable, incombustible
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not determined
pH	not determined
Kinematic viscosity	not determined
Solubility	insoluble in water
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	not determined
Density and/or relative density	1,1 g/cm <sup>3</sup> (25 °C)
Relative vapour density	not determined
Particle characteristics	not applicable

**9.2 Other information**

Dynamic viscosity	700 mPa·s (25 °C)
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## Section 10: Stability and reactivity

**10.1 Reactivity**

Product is reactive. See also 10.3-10.5.

**10.2 Chemical stability**

The product is stable under normal conditions of storage and use.

**10.3 Possibility of hazardous reactions**

In contact with aliphatic amines, the product may exothermically polymerise.

**10.4 Conditions to avoid**

Avoid sources of heat and direct sunlight.

**10.5 Incompatible materials**

Avoid contact with strong oxidizing agents, acids, bases, amines.

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## 10.6 Hazardous decomposition products

There are no hazardous decomposition products when product is properly used and stored.

## Section 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicity of components

(reaction product: bisphenol-A-(epichlorhydrin).epoxy resin (number average molecular weight  $\leq$  700))

LD<sub>50</sub> (oral, rat) > 15 000 mg/kg

LD<sub>50</sub> (skin, rabbit) > 23 000 mg/kg

(benzyl alcohol)

LD<sub>50</sub> (oral, rat) 1 620 mg/kg

LC<sub>50</sub> (inhalation, rat) > 4178 mg/m<sup>3</sup>/4h (method: OECD 403)

#### Toxicity of mixture

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

#### Acute toxicity

The acute toxicity of the mixture (ATE<sub>mix</sub>) was calculated on the basis of the appropriate conversion factor contained in Table 3.1.2. Annex I to the CLP Regulation as amended.

ATE<sub>mix</sub> (ingestion) > 2000 mg/kg

ATE<sub>mix</sub> (inhalation) > 20 mg/l

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Information on likely routes of exposure

Routes of exposure: eye contact, skin contact, ingestion, inhalation. For more information – see subsection 4.2.

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## Symptoms related to the physical, chemical and toxicological characteristics

No data.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data.

### **11.2 Information on other hazards**

#### Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1% by weight.

#### Other information

No data.

## **Section 12: Ecological information**

### **12.1 Toxicity**

#### **Toxicity of components**

(reaction product: bisphenol-A-(epichlorhydrin),epoxy resin (number average molecular weight  $\leq$  700))

Toxicity for fish LC<sub>50</sub> 2 mg/l/96h (Oncorhynchus mykiss)

Toxicity for daphnia EC<sub>50</sub> 1,8 mg/l/48h (Daphnia magna)

#### **Toxicity of mixture**

Toxic to aquatic life with long lasting effects.

### **12.2 Persistence and degradability**

The product is difficult to biodegrade.

(reaction product: bisphenol-A-(epichlorhydrin),epoxy resin (number average molecular weight  $\leq$  700))

biodegradation: 12% (28 days, OECD 302B)

### **12.3 Bioaccumulative potential**

(reaction product: bisphenol-A-(epichlorhydrin),epoxy resin (number average molecular weight  $\leq$  700))

log Po/w 3,3; BCF 100-3000, bioaccumulation potential: moderate.

### **12.4 Mobility in soil**

The potential for mobility in the soil for an epoxy resin is low (Koc between 500 and 2000).

### **12.5 Results of PBT and vPvB assessment**

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

### **12.6 Endocrine disrupting properties**

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1% by weight.

### **12.7 Other adverse effects**

Product has no influence on global warming and destruction of the ozone layer.



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## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal methods for the product: the waste product should be recovered or disposed of in authorized incinerators or waste disposal facilities, in accordance with applicable regulations. Do not empty into drains. Store residues in original containers. The waste code should be given at the place of formation.

Disposal methods for used packing: reuse/recycle/eliminate empty containers in accordance with the local legislation. Reusable containers can be re-used after cleaning.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

## Section 14: Transport information

### 14.1 UN number or ID number

UN 3082

### 14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN),EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700))

### 14.3 Transport hazard class(es)

9

### 14.4 Packing group

III

### 14.5 Environmental hazards

Mixture is hazardous for the environment in accordance with transport regulation.

### 14.6 Special precautions for user

Wear personal protective equipment (compliant with section 8) when handling the product. If any substances have leaked and been spilled in a vehicle or container, it may not be re-used until after it has been thoroughly cleaned and, if necessary, disinfected or decontaminated. Any other goods and articles carried in the same vehicle or container shall be examined for possible contamination.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

## Section 15: Regulatory information

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

**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 2000/21/EC as amended.

**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 (Text with EEA relevance) as amended.

**Commission Regulation (EU) No 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Directive 2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

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**European Parliament and Council Directive 94/62/EC** of 20 December 1994 on packaging and packaging waste as amended.

**Regulation (EU) 2016/425** of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (Text with EEA relevance).

**Commission Directive 2000/39/EC** of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**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.

**Commission Directive 2017/164/EU** of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

**Commission Directive 2019/1831/EU** of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

## 15.2 Chemical safety assessment

It is not necessary to carry out a chemical safety assessment for the mixture.

### Section 16: Other information

#### Full text of indicated H phrases mentioned in section 3

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

#### Clarification of aberrations and acronyms

Acute Tox. 4	Acute toxicity category 4
Skin Sens. 1	Skin sensitization category 1
Eye Irrit. 2	Eye irritation category 2
Skin Irrit. 2	Skin irritation category 2
Aquatic Chronic 2	Hazardous to the aquatic environment, category 2
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance

#### Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

#### Key literature references and sources of data

This SDS was prepared on the basis of sheets of the individual components, literature data, online databases (e.g. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

#### Procedure used to classify the mixture

Classification was based on data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended. Acute toxicity of the mixture ( $ATE_{mix}$ ) was calculated on the basis of the appropriate conversion factor included in Table 3.1.2. of Annex I to the CLP Regulation.

#### Additional information

Safety Data Sheet made by: **THETA Consulting Sp. z o.o.** (on the basis of producer's data)

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The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.