

SAFETY DATA SHEET OF CHEMICAL PRODUCTS

Entered in the Register of Safety data sheet

№ SDS 2 5 6 6 5 3 4 4 . 2 0 . 5 6 2 7 0

from «12» February 2020 y.

Valid until «12» February 2025 y.

**Association «Non-profit partnership «Coordination and information center
of the CIS member States on reproachment of regulatory practices»**

Deputy Director /Signature/ /O. Yu. Chechevatova/

Place for stamp

NAME

technical (by ND)

Granulated Microspheres LegaFoam 120MB

chemical (by IUPAC)

Has no name

trade name

Granulated Microspheres LegaFoam 120MB

synonyms

Has no name

OKPD code 2

2 0 . 1 6 . 5 3 . 0 0 0

TN VED CODE (HS CODE)

3 9 0 6 9 0 9 0 0 7

**Conventional symbol and name of the basic normative, technical or information document for
the product (GOST, TU, OST, STO, (M)SDS)**

TU 20.16.53-023-25665344-2019 Granulated Microspheres LegaFoam 120MB

CHARACTERISTIC OF HAZARD

Signal

CAUTION

Short (by word): Category 4 – by health effect it is low hazardous substance according to GOST 12.1.007. In contact with eyes, it causes irritation. Combustible matter. It may pollute the environmental compartments

Detailed: in the 16 attached sections of the Safety Data Sheet

MAIN TOXIC COMPONENTS	MPC wa mg/m ³	Class of danger	No. CAS	NO. EC
Isopentane	900/300	4	78-78-4	201-142-8
Acrylonitrile-vinylidene chloride-methylmethacrylate copolymer (polymers and copolymers based on acrylic and methacrylic monomers)	10	4	25214-39-5	607-652-0

APPLICANT Limited liability company "Lega",
(name of company)

DZERZHINSK
(city)

Type of applicant producer, supplier, seller, exporter, importer
(cross the unnecessary one)

OKPO code 2 5 6 6 5 3 4 4

Emergency phone 8-8313-25-27-09

The head of the applicant organization _____
(signature)

/ Iu. V. Zhdanov/
Place for stamp (decryption)

**The safety data sheet (SDS) complies with UN recommendations
ST/SG/AC.10/30 «GHS»**

- IUPAC** – International Union of Pure and Applied Chemistry
- GHS (СГС)** – Рекомендации ООН ST/SG/AC.10/30 «Globally Harmonized System of Classification and Labelling of Chemicals»
- ОКР** – The all-Russian classifier of products
- ОКПО** – All Russian classifier of companies and organizations
- TN VED** – Trade nomenclature of external economic activity
- № CAS** – Chemical number in the register of the Chemical abstracts service
- № EC** – Number of the substance in the register of the European Chemical Agency
- Threshold limit value - MPCwa** – Maximum permissible concentration of the chemical substance in the working area air mg/m³
- Signal word** – A word used to emphasize the degree of danger of chemical products and selected in accordance with GOST 31340-2013

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1 Identification of chemical products and information about the producer and the supplier

1.1 Identification of chemical products Granulated Microspheres Lega Foam 120MB

- 1.1.1 Technical name Granulated Microspheres Lega Foam 120MB
- 1.1.2 Short recommendation on the use (incl. the restrictions of the use) Lega Foam 120MB granulated microspheres are used as a highly filled additive for foaming thermoplastics [1]

1.2 Information on the producer or/and supplier

- 1.2.1 Full description of the organization Limited liability company «Lega»
- 1.2.2 Address (legal) 606025, Dzerzhinsk the region of Nizhny Novgorod
Boulevard Mira, h. 29a, office 22
- 1.2.3 Telephone, including for emergency consultations and time limits (8313) 25-27-09 from 9.00 till 17.00
- 1.2.4 Telephone incl. for emergency consultations (8313) 39-57-53
- 1.2.5 Fax lega-dz@yandex.ru

2 Identification of hazard (hazards)

- 2.1 Hazard level of chemical products in general By health effect it belongs to Category 4 – low hazardous substance according to GOST 12.1.007 [1,2]
- information on hazard classification in accordance with the legislation of the Russian Federation (GOST 12.1.007-76) GHS classification: - chemical products causing eye damage/irritation - class 2B [4] [11] [12]
- by GHS (GOST 32419-2013, 32423-2013 GOST, GOST - 32424-2013, GOST 32425-2013)

2.2 Information on warning marking according to GOST 31340-2013

- 2.2.1 Signal word Caution
- 2.2.2 Danger symbols n/a [5]
- 2.2.3 Hazard statement (H-phrases) H320: in case of contact with eyes causes irritation
Flammability hazard exists

3 Composition (information on ingredients)

3.1 Product information in general

- 3.1.1. Chemical name (according to IUPAC) No
- 3.1.2 Chemical formula No
- 3.1.3 General characteristics of the composition (taking into account the mark range; method of obtaining) Granular microspheres are obtained by adding unexpanded (untreated) microspheres into a molten mass of ethylene vinyl acetate, followed by stirring and granulation in an extruder. Inside the shell of the microsphere, consisting of a copolymer of acrylonitrile, hydrocarbon gas - isopentane is encapsulated. Isopentane is located inside the polymer shell (no pressure) and does not diffuse from it under production and handling conditions; it does not exhibit explosive properties in this product. It is used to expand [1] [8]

the shell of microspheres. Isopentane can only be released in emergency, in which isopentane burns out immediately with the release of carbon dioxide.

3.2 Components

(name, number CAS and the EU, the mass fraction of (total must be 100%), maximal permissible concentration (MPC) or safe reference level of impact (ОБУВ), classes of Safe Reference Level of Impact (SRLI) classes of hazards, references to data sources)

Таблица 1 [1,7,13]

Components (name)	% wt	Hygienic standards in the air of the working area		№ CAS	№ EC
		maximal permissible concentration mg/m ³ (MPC)	Class danger		
Isopentane	15-20	900/300*, (v or g)	4	78-78-4	201-142-8
Acrylonitrile-Methacrylonitrile - methylmethacrylate copolymer	40-50	10**, a	4	25214-39-5	607-652-0
Copolymer of ethylene and vinyl acetate	30-40	Не установлена	Нет	24937-78-8	429-840-1

a-aerosol;

v - vapours and/or gases

*- for aliphatic hydrocarbons in terms of C₁-C₁₀;

**- by polymers and copolymers based on acrylic and methacrylic copolymers.

4 First aid measures

4.1 Symptoms observed

4.1.1 If poisoning by inhalation (by inhalation)

When inhaled, thermal decomposition products cause sore throat, cough, shortness of breath, necrosis of the mucous membrane of the respiratory tract [1] [6]

4.1.2 Skin care measures

Under normal conditions it does not affect the skin. [7]
Contact with a burning or very hot product can cause severe thermal burns on the skin.

4.1.3 In case of an eye contact

Irritation, redness, and tearing of the eyes.

4.1.4 In case of a peroral poisoning (by swallowing)

If swallowed, the stomach is not irritating. May cause clogging of the mouth and throat.

4.2 Measures of the first aid to the suffered people

4.2.1 In case of poisoning by inhalation

Bring to fresh air. Get medical attention. [1] [6]

4.2.2 In case of skin contact

In case of thermal burns, treat the affected area with cold water and seek medical attention.

4.2.3 In case of an eye contact

Rinse eyes wide open with a weak stream of running water until irritation disappears

4.2.4 In case of poisoning perorally

Remove the product from the mouth, rinse your mouth with water and then drink plenty of water. Do not induce

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4.2.5 Contraindications vomiting.
No attempt should be made to separate the adhering [7]
molten product from the skin or to remove clothing
grabbed by the molten material, since there is a risk of
tearing the tissue of the injured part of the body

5 Measures and means of ensuring fire and explosion safety

5.1 General characteristics of fire and explosion hazard The product is combustible, explosion proof. Keep away [1]
from open flames, hot surfaces and sources of ignition. A [15]
highly combustible substance (isopentane) is encapsulated [6]
in the polymer structure.

5.2 Indicators of fire and explosion hazard (nomenclature of indicators according to GOST 12.1.044-2018 and GOST 30852.0-2002) Flash point, °C – none [1]
Ignition temperature - more than 170°C [6]
Decomposition temperature

5.3 Combustion and/or thermal degradation products and their hazards It burns with the formation of toxic gases and thick smoke. [6]
Near the main source of ignition or when heated, [19]
decomposition of the product is possible with the release
of toxic fumes: hydrogen chloride, carbon monoxide,
hydrogen oxide. Hazards during a fire: burns, injuries,
poisoning, impaired movement coordination, dizziness,
necrosis of the mucous membrane of the respiratory tract

5.4 Recommended extinguishing media (equipment) Water spray, dry foam [1]
[6]

5.5 Prohibited extinguishing media fires (equipment) No information [1]

5.6 Personal protection equipment for fire fighting (PPE fire) Firefighter's clothing (jacket and trousers with removable [14]
insulating underwear) complete with a lifeguard belt,
gloves, a fire helmet, and special protective shoes.

5.7 The specifics during the extinguishing of fire In case of fire and / or explosion do not breathe fumes. [14]
Turn off the power to the heat sources and sparking tools.
Polymer and polyethylene packaging may be involved in
the combustion process, therefore containers with the
product should be cooled with water from the maximum
distance. When burning, an exothermic reaction proceeds
with the release of toxic fumes.

6 Measures for prevention and liquidation of emergency situations and their consequences

6.1 Measures to prevent harmful effects on people, environment, buildings, structures, etc. in emergency situations

6.1.1 The necessary steps of general nature in case of emergency and emergency situations Remove personnel not involved in emergency response [14]
from the danger zone. Isolate the danger zone in the
radius of at least 50m. Correct the indicated distance
according to the results of chemical survey. Observe fire
safety measures. Do not smoke. Remove sources of fire
and sparks. Give first aid to victims.

6.1.2 Personal protective equipment in emergency situations All-service protective suit (L-1) or (L-2) completed with [6]
an industrial gas mask and cartridges A, B. Overalls. Oil
and petrol resistant gloves, butyl rubber dispersion gloves,

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special shoes. In case of fire - fireproof suit complete with self-rescuer SPI-20

6.2 Order of actions at liquidation of emergency situations

6.2.1 Actions in case of leakage, pouring, placers (including measures to eliminate them and precautions to protect the environment)

Inform the sanitary and epidemiological inspection bodies. [6]
Prevent granulated microspheres from entering surface [14]
water.

Remove product from hard coatings by wet cleaning.
Collect in a container for disposal, send for disposal in compliance with fire safety measures.

No smoking. Eliminate sources of fire and sparks

6.2.2 Действия при пожаре

Enter the accident area in protective clothing and breathing [14]
apparatus.

Evacuate people from the fire zone. Extinguish by means suitable for the main source of ignition.

Do not allow contaminated fire extinguishing waste water to enter sewers and gutters.

Turn off the power to the heat sources and sparking tools

7 Rules of storage and handling of chemical products during loading and unloading operations

7.1 Safety measures for handling chemical products

7.1.1 Systems of engineering safety measures

Sealing of equipment, hardware. Grounding of equipment, [1]
communications, tanks. [6]

Exclusion of the possibility of a spark discharge.
Prohibition of the use of open flame. Daily wet cleaning.
Providing drinking water.

7.1.2 Measures to protect environment

Sealing of equipment, hardware. [1]

Equipping with ventilation exhaust with further filtering of [6]
emissions. Control of suspended solids in the air of the
working area.

Prevent substance from entering water bodies and sewers.

7.1.3 Recommendations for safe movement and transport

The product is transported by all means of transport in [1]
accordance with the rules for the carriage of goods
effective for type of transport, in covered vehicles and
conditions ensuring the safety of the finished product and
packaging. Transportation is carried out in hermetically
sealed plastic bags of 10-15 kg on wooden pallets covered
with stretch film. Loading and securing of cargo is carried
out according to the tie-down scheme for this type of
transport.

7.2 Rules of storage of chemical products

7.2.1 Terms and conditions of safe storage
(including, warranty period of storage, shelf life, incompatible substances and materials)

The finished packaged product is stored in a dry, [1]
ventilated warehouse, away from heat sources at a [6]
temperature not exceeding 40°C. Storage is allowed in
open areas equipped with a canopy that excludes direct
sunlight. The guaranteed shelf life of the product is 36
months from the date of manufacture. Combined storage
with food products is not allowed. Other incompatible
substances and materials are unknown.

7.2.2 Tare and packaging (including

Granulated microspheres Lega Foam 120MB are [1]

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the materials from which they are made).

packed in 10-15 kg plastic bags, and placed on wooden or plastic pallets. To protect against pollution, wrap with stretch film.

7.3 Safety measures and rules of storage in everyday life.

Not applicable.

8 Hazardous exposure controls and personal protection

8.1 Parameters of the working area subject to mandatory control (maximal permissible concentration (MPC) or safe reference level of impact.

MPC is subject to mandatory control of isopentane [1]
content at 900/300 mg/m³, and acrylic and methacrylic [6]
monomer polymers and copolymers at 10 mg/m³. [24]

8.2 Measures to ensure the content of harmful substances in acceptable concentrations.

Tightness of equipment. [1]

Monitoring the content of acrylic and methacrylic monomer polymers and isopentane in the working zone air.

Maintaining the temperature at the level of no higher than 25°C.

8.3 Personal protective equipment for personnel

8.3.1 General recommendation

Personal protective equipment for personnel. [1]

Safety induction and training.

Only safety trained and briefed personnel over 18 years is allowed to work.

Observation of personal hygiene rules.

8.3.2 The respiratory protection (RPD)

Small-sized industrial gas mask PFM-1 [1]

with universal protective cartridge PZU or universal respirators like RPG-67, RU-60M with B cartridge

8.3.3 Protective equipment (material, type) (overalls, footwear, hand protection, eye protection)

Protective suits according to GOST 12.4.251 [20]

Cotton gloves according to GOST 5007 type 1 [21]

or according to GOST 20010

Goggles according to GOST 12.4.253 or organic [22]

glass mask; [23]

Safety boots according to GOST 12.4.137 [25]

Ear phones according to GOST 12.4.274

8.3.4 Personal protective equipment for domestic use

Not applicable.

9 Physical and chemical properties

9.1 Physical state (aggregate state, color, smell)

Granulated microspheres are cylindrical white granules with [1]
a yellowish tint, 3x4 mm in size

9.2 Parameters characterizing the main properties of products (temperature, pH, solubility, coefficient n-octanol/water etc. settings specific to this product)

The bulk density of all grades of the product is 0.35-0.50 [1]
g/cm³

Free foam volume at 200° C is 25-40 ml.

Insoluble in water

Soluble in dimethyl formamide

10 Stability and reactive capacity

10.1 Chemical stability (for unstable products specify decomposition products)

Product is stable subject to the compliance with storage [1]
conditions. [6]

10.2 Reactive capacity

Insoluble in water. Reactivity with alkalis and acids [6]

has not been studied. Soluble in dimethyl formamide

10.3 Conditions to avoid (including hazards in contact with incompatible substances and materials)

Storage near sources of fire and sparks [1]
[6]

11 Toxicity information

11.1 General characteristics of exposure

(assessment of the degree of danger (toxicity) of exposure to the body and the most characteristic manifestations of danger)

By health effect - hazard category 4 – low hazardous substance. Eye contact causes irritation. [1]
[6]

11.2 Exposure routes

(inhalation, oral, in contact with skin and eyes)

Eye contact [6]
Ingestion

11.3 Human organs, tissues and systems affected

If thermal degradation products enter the human body, the nervous system (brain) and respiratory system (lungs) can be affected. [1]
[6]

11.4 Information about the dangerous health effects through direct contact with the products as well as the consequences of these effects

(irritant effect on the upper respiratory tract, eyes, skin; skin-resorptive and sensitizing effects)

Eye contact causes irritation. Percutaneous action is not established. Sensitizing effect is not established. The main components are not able to penetrate intact skin Mutagenic, embryotropic, gonadotropic, teratogenic, carcinogenic effects and cumulativity have not been studied. [1]
[6]

11.5 Information about dangerous long-term effects of products on the body (effects on production function, carcinogenicity, mutagenicity, cumulative and other chronic effects)

Mutagenic, embryotropic, gonadotropic, teratogenic, carcinogenic effects and cumulativity have not been studied. [1]

11.6 Indications of acute toxicity

[DL₅₀], the routes of the ingress [intr/to the stomach., appl/to the skin], type of animal; CL₅₀, time of exposition [h], the species of the animal]

Granulated microspheres: [6]
DL₅₀ >5000mg/kg, oral
DL₅₀, skin – no data [30]
CL₅₀ – no data;
Isopentane: [30]
DL₅₀ = 2000-5000 mg/kg, oral, rats
DL₅₀, skin – no data
CL₅₀ =25,3 mg/l, rats, 4 hours [30]
Acrylonitrile - methacrylonitrile -
methyl methacrylate copolymer: no data
Ethylene Vinyl Acetate Copolymer: no data

12 Information on the impact on the environment

12.1 General characteristics of impact on environmental objects (atmospheric air, water bodies, soils, including observed effects)

Mechanical pollution of water bodies (product granules may be observed on the surface of the water) [6]
Mechanical mixing with soil (inclusions of granulated microspheres in the surface soil)

12.2 Exposure routes

Ways of impact on the environment

Depressurization of equipment or shipping containers, as a result of emergency situations. [1]
Violation of the rules of storage and transportation of products.
Improper storage of waste

12.3 The most important characteristics of the impact on the environment

12.3.1 Health standards (permissible concentrations in atmospheric air, water, including fishery water bodies, soils)

Table 2 [1,16,17,18,28]

Components	maximal permissible concentration MPC or safe reference level of impact , mg/m ³ (limiting index of harmfulness)	MPC water or tentative permissible levels of chemical substances in the water , mg/l, (LPV, limiting index of harmfulness)	MPC for fishery water bodies or safe reference level of impact, mg/l, (limiting index of harmfulness)	MPC of soil or approximate permissible concentration of the pollutant in soil, mg/kg (limiting index of harmfulness)
Isopentane (by pentane)	maximum single 100,0 daily average 25,0 (reflex resorptive hazard class 4)	Not determined	Not determined	Not determined
Acrylonitrile-methacrylonitrile-methylmethacrylate copolymer	No data available	6, sanitary-toxicological, sanitary-toxicological, polyacrylonitrile)	0,01, sanitary-toxicological Hazard class 3 (acrylonitrile) 0,001, toxicological, Hazard class 3 (methylmethacrylate)	No data available
Copolymer of ethylene and vinyl acetate	0,1 reflex, Hazard class 2 (ethyl acetate)	0,2, sanitary-toxicological, Hazard class 2 (ethyl acetate)	0,01, sanitary-toxicological Hazard class 4 (vinyl acetate)	No data available

12.3.2 Ecotoxicity indices (SL, EC, NOEC for fish, Daphnia Magna, algae and others)

Granulated microspheres: [6]
CL₅₀>5000mg/l, exposure time -96 hours

12.3.3 Migration and transformation in the environment through biodegradation and other processes (oxidation, hydrolysis, etc.)

Contains no substances that are resistant, bioaccumulative or toxic [6]

13 Recommendations for the disposal of waste (RCRA)

13.1 Safety measures for handling waste generated during application, storage, transportation

Similar to those used in handling the main products and described in sections 6,7 and 8 hereof

13.2 Information on places and methods of disposal, disposal or disposal of waste products, including packaging)

For storage and transportation of wastes the same [6] containers are used as for the product.
Disposal by ignition. When the product is burned, gaseous products of combustion are released (Section 5.3).

13.3 Recommendations for the

Not applicable.

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disposal of waste generated by the use
of products in the home

14 Transport information

14.1 Number UN (in accordance with the UN Recommendations on the transport of dangerous goods)	Not classified as dangerous goods	[9]
14.2 Proper shipping and transport names	Granulated microspheres Lega Foam 120MB	[1]
14.3 Modes of transport used	Motor, railway, aviation or water transport, in accordance with the rules of transportation for this type of transport	[1]
14.4 Classification of danger according to GOST 19433-88	Not classified as dangerous goods	[1] [26]
14.5 Classification of dangerous goods according to The UN recommendations on the transport of dangerous goods	Not classified as dangerous goods	[1]
14.6 Transport marking (manipulation signs according to GOST 14192-96)	“KEEP AWAY SUNLIGHT” sign No 2 “SEALED PACKAGE”, sign No 7	[10]
14.7 Emergency cards (rail, sea and other transport)	n/a	[14]

15 Information on national and international legislation

15.1 Национальное законодательство

15.1.1 The Laws of the Russian Federation	Federal Law concerning Technical Regulations; The Basic Law on the Health Protection of the Citizens of the Russian Federation; Federal Law concerning the Sanitary and Epidemiological Welfare of the Population; Environmental Protection Federal Law; Federal Law concerning Production and Consumption Wastes; Federal Law concerning Industrial Safety of Hazardous Production Facilities; Federal Law concerning the Protection of Atmospheric Air; Federal Law concerning Fire Safety.
15.1.2 Information on the documentation regulating the requirements for the protection of man and the environment	None
15.2 International conventions and agreements (whether products are regulated by the Montreal Protocol, the Stockholm Convention, etc.)	Not regulated

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16 Additional information

16.1 Information on the revision (reissue) of SP Safety data sheet prepared for the first time

16.2 List of data sources used in the preparation of the safety data sheet

1. TU 20.16.53-023-25665344-2019 Granulated Microspheres Lega Foam 120MB
2. GOST 12.1.007-76. OSSS (Occupational Safety Standards System). Hazardous Substances. Classification and General Safety Requirements.
3. GOST R 56958-2016 Guidelines for the Application of Hazard Classification Criteria of Chemical Products by Their Health Effects. Skin Damage/Irritation.
4. GOST 32423-2013 Hazard Classification of Mixed Chemicals by Their Health Effects
5. GOST 31340-2013 Warning Labeling of Chemicals.
6. Safety Data Sheet (SDS) for Similar Product
7. Total Petrochemicals Safety Information Card for Ethylene and Vinyl Acetate Copolymer
8. Technical Regulations for Granulated Microspheres Production, OOO Lega.
9. UN Recommendations for Transport of Dangerous Goods. Typical Rules
10. GOST 14192-96 Cargo Labeling.
11. GOST 32419-2013 Hazard Classification of Chemicals. General Requirements.
12. GOST R 56957-2016 Guidelines for the Application of Criteria for Hazard Classification of Chemical Products by Their Health Effects. Acute toxicity if swallowed.
13. GOST 12.1.005-88 OSSS (Occupational Safety Standards System) General Sanitary and Hygienic Requirements for Air in the Working Area.
14. Emergency Cards for Dangerous Goods Transported By Railways of the CIS, the Republic of Latvia, the Republic of Lithuania, the Republic of Estonia
15. GOST 12.1.044-2018 Occupational Safety Standards System. Fire and Explosion Hazard of Substances and Materials.
16. HN (Hygienic Normative) 2.1.6.3492-17 Maximum Allowable Concentrations (MAC) of Pollutants in the Atmospheric Air of Urban and Rural Settlements
17. HN 2.1.7.2041-06 Maximum allowable concentrations (MAC) of Chemicals in the Soil.
18. HN 21.5.1315-03 Maximum permissible concentrations (MPC) of chemicals in the water of water bodies of household, drinking, and cultural and domestic water use
19. Forensic library. Combined values of the toxic effects of carbon monoxide and volatile combustion products of polymeric materials, www/forens-med.ru
20. GOST 12.4.251-2013 OSSS Special Clothing for Protection Against Acid Solutions. Technical Requirements
21. GOST 20010-93 Technical Rubber Gloves. Technical Specifications
22. GOST 12.4.253-2013 OSSS. Personal Eye Protection. General Technical Requirements
23. GOST 12.4.137-2001 Special footwear with leather upper for protection against oil, oil products, acids, alkalis, non-toxic and explosive dust. Technical specifications
24. GOST 28507-99 Special shoes with leather upper for protection against mechanical stress. Technical specifications
25. GOST 12.4.208-2014 Occupational safety standards system (OSSS). Personal protective equipment for the hearing organ. General technical requirements. Test methods.
26. GOST 19433-88 Dangerous goods. Classification and labeling.
27. HN 2.2.5.3532-18 Maximum allowable concentrations (MAC) of Harmful Substances in Working Zone Air
28. Order of the Ministry of Agriculture of the Russian Federation of December 13, 2016. Concerning Approval of Water Quality Standards for Fishery Water Bodies, including the Standards of Maximum Permissible Concentrations of Harmful Substances in the Waters of Fishery Water Bodies.

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29. ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
30. European Chemicals Agency <https://echa.europa.eu> (Isopentane, Acrylonitrile-Methacrylonitrile-Methyl Methacrylate Copolymer)
31. Fire Safety Technical Regulation dated July 22, 2008 No. 123-FZ. Section V. Chapter 27