

99% PURE ACETONE - ACETONE PURO 0001

Safety Data Sheet

According to Annex II of REACH - Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product ID

Code	0001
Product Name	99% PURE ACETONE - ACETONE PURO
Chemical name and synonyms	Acetone
INDEX Number	606-001-00-8
Executive Number	200-662-2
CAS number	67-64-1

1.2. Identified uses of the substance or mixture that are relevant and uses that are not recommended

Application Description	Composition and (re)packaging of substances and mixtures Use in rubber production Use in polymer processing Industrial use - professional use Use in coatings Industrial use - Professional use - Consumption Use in laundry products Industrial use - Professional use - Use of consumables Use in Binding and Releasing Agents Industrial Use - Professional Use Use in agrochemical products Laboratory Use Industrial Use - Professional Use One in anti-freeze and defrost applications. Use in production and drilling operations in oil and gas fields Industrial use - Professional use Use in explosives Use as a solvent Use as process adjuvant, catalyst, dehydrating agent, pH regulator Production of polymers Industrial use - professional use Use as blowing agents.
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1.3. Details of the safety data sheet provider

Manufacturer: BRENNA SRL	Distributor : Ada Color Ltd.
Address: VIA ARNO 48	176 Brezovsko Shose st.
20831 SEREGNO (mb)	4003 Plovdiv, Bulgaria
Tel: +39 0362239819	Mobile: +359896663052
Fax: +39 0362 244726	Tel: +35932940456
Web: www.brennachim.com	Fax +35932940457
Email: brennachim@gmail.com	Web: adacolor-bg.com

1.4. Emergency telephone number

For urgent information, please contact	Additional information: Bulgaria: Toxicology Clinic at the Pirogov Hospital for Active Treatment Emergency phone: +359 02 9154 409 (standard time excluding the weekend) +359 02 9154 346 (24/7 support)
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SECTION 2. Hazard description

2.1. Classification of the substance or mixture

The product is classified as hazardous under the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and corrections). The product requires a safety data sheet in accordance with Regulation (EU) 2020/878.
Any additional information regarding health and/or environmental risks is noted in Sections 11 and 12.

Hazard classification and designation:
Flammable liquid, category 2

H225

Highly flammable liquid and vapors.

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SECTION 2. Hazard description ... / >>

Eye irritation, category 2
certain organs -
exposure, category 3

H319
H336

It causes serious eye irritation. Specific toxicity for
May cause drowsiness or dizziness. single

2.2. Label elements

Hazard labelling according to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and corrections.

Hazard pictograms:



Signal words:

Danger

ous Hazard Warnings:

H225

Highly flammable liquid and vapors.

H319

It causes serious eye irritation.

H336

May cause drowsiness or dizziness.

EUH066

Repeated exposure can cause dryness or cracking of the skin.

Safety recommendations:

P280

Use protective gloves/clothing and eye/face protection.

P370+P378

In case of fire: use a fire extinguisher to extinguish.

P210

Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition.

Smoking is prohibited.

P261

Avoid inhaling dust/vapours/gases/mist/vapours/aerosols.

P233

Store the container tightly closed.

P403+P235

Store in a well-ventilated place. Store in a cool place.

P243

Take action to prevent the release of static electricity.

P305+P351+P338

IN CASE OF EYE CONTACT: Rinse gently with water for several minutes. Remove contact lenses, if any, and as much as possible. Continue rinsing.

P405

Store under lock and key.

Contains:

CLEAN

AKETON INDEX

606-001-00-8

2.3. Other dangers

The substance has no persistence, bioaccumulation and toxicity (PBT) properties, and is not very persistent and very bioaccumulative (vPvB).

The substance does not have properties that disrupt the functions of the endocrine system.

SECTION 3. Ingredients/Ingredient Information

3.1. Substances

Contains:

Identification

Conc. %

Classification (EC) 1272/2008 (CLP)

PURE ACETON

INDEX 606-001-00-8

100

Flam. Liq. 2:225 a.m., Eye Irritates. 2 H319, STOT SE 3 H336, EUH066

EEC 200-662-2

CASE 67-64-1

The full text of hazard instructions (H) is in Section 16.

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SECTION 4. First aid measures**4.1. Description of first aid measures**

EYES: Eliminate possible contact lenses. Wash immediately and thoroughly with water for at least 15 minutes, opening the eyelids well. If the problem persists, consult a doctor.

SKIN: Remove contaminated clothing. Rinse slowly and thoroughly with water. If irritation persists, consult a doctor. Before new use, dirty clothes should be washed.

INHALATION: Take the subject to fresh air. If breathing is difficult, call a doctor immediately.

INGESTION: Consult a doctor immediately. Induce vomiting only with a doctor's prescription. If the subject is unconscious or if there is no doctor's prescription, do not give anything oral.

4.2. The most significant acute symptoms and effects occurring after a certain period of time

No information available

4.3. Indication of the need for any emergency medical care and special treatment

No information available

SECTION 5. Fire prevention measures**5.1. Fire extinguishers****SUITABLE EXTINGUISHING AGENTS**

Extinguishing agents are: carbon dioxide, foam, chemical powders. In the event of leaks or spills of the product that have not ignited, the nebulised water may be used to disperse flammable vapours and to protect persons engaged in the activity of stopping the leakage.

INAPPROPRIATE EXTINGUISHING AGENTS

Do not use a water jet. Water is not effective for extinguishing fire, but it can be used to cool closed vessels that are exposed to flames in order to prevent explosions and explosions.

5.2. Particular hazards arising from the substance or mixture**HAZARDS OF EXPOSURE TO SUCH A FIRE**

Overpressure can be created in vessels exposed to fire with a risk of explosion. Avoid inhalation of products resulting from ignition.

5.3. Tips for firefighters**BACKGROUND**

Cool the dishes with a water jet to avoid degradation of the product and the formation of potentially hazardous substances. Always wear full protective firefighting equipment. Collect the water used to extinguish the fire, which should not be poured down the drain. The contaminated water used in extinguishing the fire and fire should be disposed of in accordance with the current regulations.

EQUIPPING

Normal firefighting clothing, such as one open-chain compressed air respirator (EN 137), fire kit (EN469), fire gloves (EN 659) and firefighting boots (HO A29 or A30).

SECTION 6. Emergency release measures**6.1. Personal precautions, protective equipment and emergency procedures**

In the absence of danger, stop the source of leakage or spillage of the product.

Use appropriate protective equipment (including personal protective equipment specified in Section 8 of the Safety Data Sheet) to avoid contact with skin and eyes and contamination of personal clothing. These guidelines apply to both product handlers and emergency interventions.

Persons without the necessary equipment should be distant. Use anti-flammable equipment. Remove any incendiary or heat source (cigarettes, flames, sparks, etc.) from the area where the product was spilled.

6.2. Precautions to protect the environment

Do not allow the product to enter sewers, surface waters, groundwater.

6.3. Methods and materials for restraint and cleaning

Aspirate the leaked product in a suitable container. Assess the compatibility of the vessel to be used for the product by

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SECTION 6. Emergency release measures ... / >>

Check Section 10. Absorb the substrates with absorbent inert material.

Carry out the necessary ventilation of the room where the product was spilled. The disposal of the contaminated material must be carried out in accordance with the provisions in item 13.

6.4. Reference to other sections

Any information regarding personal protective equipment and waste disposal is given in Sections 8 and 13.

SECTION 7. Operation and storage**7.1. Precautions for safe operation**

Keep away from heat, sparks and flames, do not smoke and do not use matches and lighters. Without proper ventilation, fumes can accumulate above the ground and even from a distance, if a spark is triggered, they can ignite again. Avoid the accumulation of electrostatic loads. In the case of large-sized packages during transfer operations, connect with a plug in an earthed socket and wear anti-static shoes. Its strong shaking and vigorous leakage of liquid through pipes and appliances can lead to the formation and accumulation of electrostatic charges. To avoid the risk of fire and explosion, never use pressurized air during transport. To avoid the risk of fire and explosion, never use pressurized air during transport. Do not eat, drink or smoke during the use of the product. Avoid spraying the product into the environment.

7.2. Safe storage conditions, including incompatibilities

Store only in the original containers. Store in closed containers, in a well-ventilated place, away from direct sunlight. Store in a cool and ventilated place, keep away from heat, flame, sparks and other incendiary sources. Containers should be stored away from possibly incompatible materials, consult section 10.

7.3. Specific end-use(s)

No information available

SECTION 8. Exposure control/personal protective equipment**8.1. Control parameters**

Reference Standards:

BGR	Bulgaria	ORDINANCE NO. 13 OF 30 DECEMBER 2003 ON THE PROTECTION OF WORKERS FROM RISKS, RELATED TO EXPOSURE TO CHEMICAL AGENTS AT WORK (amended SG No. 5 of 17 January 2020)
ITA	Italy	Legislative Decree 9 April 2008, n.81
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
HAD	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EC; Directive 2006/15/EO; Directive 2004/37/EO; Directive 2000/39/EO; Directive 98/24/EO; Directive 91/322/EIO.
	TLV-ACGIH	ACGIH 2022

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SECTION 8. Exposure control/personal protective equipment ... / >>

ЧИСТ АКЕТОН

Limit value

type	Country	TWA/8h		STEL/15min		Notes / Monitoring
		mg/kg	ppm	mg/kg	ppm	
TLV	BGR	600		1400		
VLEP	ITA	1210	500			
WELL	GBR	1210	500	3620	1500	
OIL	HAD	1210	500			
TLV-ACGIH			250		500	

Intended concentration at which there is no environmental impact - PNEC

Reference value in freshwater	10,6	mg/L
Reference value in seawater	1,06	mg/L
Reference value for freshwater sedimentation	30,4	mg/kg
Reference value for seawater sedimentation	3,04	mg/kg
Reference value for water, intermittent release	21	mg/L
Reference value for STP micro-organisms	100	mg/L
Land reference value	29,5	mg/kg

Health - Derived level without impact - DNEL / DMEL

Method of exposure	Impact on consumers		Impact on workers		Locally Acute	System Acute	Locally chronic	Acute chronic
	Local systems	Systems Acute	Local chronic	Systems chronic				
Oral				62 mg/kg/day				
Inhalation				200 mg/m3	2420 mg/m3			1210 mg/m3
Skin				62 mg/kg/day				186 mg/kg/day

Legend:

(C) = CEILING ; INHAL = Inhalable fraction ; BREATH = Inhalable fraction ; CHEST = Thoracic fraction.

VND = identified hazard, but no DNEL/PNEC room; NEA = no expected discharge; NPI = any particular hazard ; LOW = low danger ; MED = medium hazard ; HIGH = high danger.

8.2. Exposure control

Given that the use of appropriate technical measures should always take precedence over the use of personal protective equipment, ensure good ventilation in the workplace through efficient local aspiration.

When choosing personal protective equipment, ask for advice from your chemical suppliers. Personal protective equipment must bear the CE marking, which certifies that it complies with the standards in force.

Provide an emergency shower with an eye wash bath.

HAND PROTECTION

Protect hands with category III work gloves.

When choosing a material for work gloves (see EN 374 standard), the following must be taken into account: compatibility, degradation, breakage time and penetration.

In the case of handling detergents, the durability of the work gloves must be checked before use, as it cannot be predicted. Gloves have a wear time, which depends on the duration and how they are used.

SKIN PROTECTION

Wear long-sleeved work clothes and safety shoes for professional use of category I (according to Regulation 2016/425 and EN ISO 20344). Wash with soap and water after removing protective clothing.

Consider whether it is necessary to provide anti-static clothing in case the work environment carries a risk of explosion. EYE

PROTECTION

The use of airtight safety glasses is recommended (see standard EN 166).

RESPIRATORY PROTECTION

In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or of one or more substances present in the product, we advise the use of a mask with an AX filter, the limit of use of which will be determined by the manufacturer (see standard EN 14387). In case there are gases or vapors of different nature and/or gases or vapors with particles (aerosol, smoke, fogs, etc.), it is necessary to use combined filters.

The use of respiratory protective equipment is necessary in case the technical measures taken are not sufficient to limit the worker's exposure to the threshold values taken into account. The protection provided by the masks is limited.

In the event that the substance in question is odourless or its olfactive threshold is greater than the corresponding TLV-TWA, and in the event of an emergency, insert an open-circuit self-contained compressed air breathing apparatus (see EN 137) or an external air intake breathing apparatus (see EN 138). For the right choice of respiratory protective equipment, refer to EN 529.

ENVIRONMENTAL EXPOSURE VERIFICATION

Emissions from manufacturing processes, including those from ventilation systems, must be controlled in order to comply with environmental regulations.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Physical aspect	liquid	
Colour	achromatic	
Smell	Sweet-smelling	
Odor limit	48 mg/m'	
Melting point / freezing point	-94,7 °C	
Boiling point	56 °C	
Boiling interval	56-58 °C	
Zapalimost	Missing	
Lower Limit Explosion	2,5 % (v/v)	
Upper limit explosion	13 % (v/v)	
Ignition point	-18 °C	
Self-ignition temperature	538 °C	
Decay temperature	235 °C	
pH	5 - 6	
Kinematic viscosity	Missing	
Dynamic viscosity	0,33 mPa.s	
Solubility	Mix	
Distribution coefficient:		
n-octanol/water	-0.24 Log Kow	
Vapor pressure	240 814	
Density and/or relative density	792	
Relative Density of Money	2	
Characteristics of particles	Not applicable	

9.2. Other information

9.2.1. Information on physical hazard classes No information

available

9.2.2. Other safety features

Molecular Weight g/mol	5809
VOC (Directive 2010/75/EC)	100,00 % - 79,000,00 grams/litre
VOC (Volatile Carbon)	61,98 % - 48.966,94 gram/liter
Explosive properties	Not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

Under normal conditions of use, there are no particular dangers of reaction with other substances.

Reacts with: basics.

10.2. Chemical stability

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

Stable under normal conditions of use and storage.

10.3. Possibility of dangerous reactions

Fumes can form explosive mixtures when mixed with air.

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Forms: There is no dangerous reaction with proper use and use.

10.4. Conditions to avoid

Avoid overheating. Avoid the accumulation of electrostatic loads. Avoid any source of ignition.

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SECTION 10. Stability and reactivity ... / >>

Avoid exposure to: heating sources, open flames. Avoid exposure to: ignition sources. May react dangerously to exposure to: air.

10.5. Incompatible materials

Incompatible with: acids, oxidizing substances. Incompatible with: bases, amines.

10.6. Hazardous decay products

In the event of thermal decay or in the event of a fire, gases and fumes can calve, which are potentially hazardous to health.

When heated above the melting point, it can release: carbon dioxide, carbon monoxide.

SECTION 11. Toxicological information**11.1. Information on the hazard classes set out in Regulation (EC) No 1272/2008**

Metabolism, toxicokinetics, mechanism of action and other information No

information available

Information on likely routes of exposure No information

available

Immediate effects occurring after a certain period of time, as well as chronic consequences of short-term and long-term exposure

No information available

Interactions

No information available

ACUTE TOXICITY

CLEAN ACETON

LD50 (each): > 20 ml/kg rabbit

LD50 (Usten): 5800 mg/kg rat

LC50 (Vapor Inhalation): 76 mg/l/4 h

rat SKIN CORROSION / IRRITATION

Repeated exposure can cause dryness or cracking of the skin. SERIOUS EYE DAMAGE /

EYE IRRITATION

Causes serious eye irritation

SENSITISATION OF THE RESPIRATORY TRACT OR SKIN

Does not meet the classification criteria for this hazard class GERM

CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

SPECIFIC ORGAN TOXICITY - SINGLE EXPOSURE

May cause drowsiness or dizziness

SPECIFIC ORGAN TOXICITY - REPEATED EXPOSURE

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SECTION 11. Toxicological information ... / >>

Does not meet the classification criteria for this hazard class

INHALATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the substance is not included in the main European lists of potential or suspected endocrine disruptors affecting human health, which are under evaluation.

SECTION 12. Environmental information

To be used, according to normal working practice, avoiding the disposal of the product into the environment. Notify the competent authorities in case the product reaches water sources or if it has contaminated the soil and/or vegetation.

12.1. Toxicity

CLEAN ACETON	
EC50 - Algae / Aquatic Plants	8800 mg/l/72 h daphnia
LC10 Pisces	8120 mg/l/96 h pimephales
promelas Chronic NOEC Algae/Aquatic plants	530 mg/l algae

12.2. Durability and degradability

CLEAN ACETON
Quickly degradable

12.3. Bioaccumulative capacity

CLEAN ACETON	
Partition coefficient: n-otonol/water	-0,23
BCF	3

12.4. Soil Portability

No information available

12.5. PBT and vPvB assessment results

The substance has no persistence, bioaccumulation and toxicity (PBT) properties, and is not very persistent and very bioaccumulative (vPvB).

12.6. Endocrine disrupting properties

Based on the available data, the substance is not included in the main European lists of potential or suspected environmental endocrine disruptors that are under evaluation.

12.7. Other adverse effects

No information available

SECTION 13. Waste disposal**13.1. Waste treatment methods**

If possible, reuse. Product residues should be considered as special and hazardous waste materials. The degree of hazard of the waste of this product must be assessed on the basis of the current legal regulations.

The disposal of the product must be undertaken by a specialized company authorized to handle waste materials in accordance with national and local regulations.

The transport of the product should be considered an

ADR. SOILED PACKAGING

Contaminated packaging should be sent for recycling or disposal in accordance with national waste material treatment regulations.

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SECTION 14. Transport information

14.1. UN List Number or Identification Number

ADR / RID, IMDG, IATA: 1090

14.2. Exact name of the consignment on the UN list

ADR / RID: ACETONE
IMDG: ACETONE
IATA: ACETONE

14.3. Transport hazard class(s)

ADR / RID: Grade: 3 Tag: 3

IMDG: Grade: 3 Tag: 3

IATA: Grade: 3 Tag: 3



14.4. Packaging Group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for consumers

ADR / RID:	HIN - Kemler: 33	Limited quantities: 1 L	Tunnel Restriction Code: (D/E)
	Special Instructions:-		
IMDG:	EMS: F-E, S-D	Limited quantities: 1 L	
IATA:	Load:	Maximum quantity: 60 L	Packing Instructions: 364
	Travellers:	Maximum quantity: 5 L	Packing Instructions: 353
	Special instructions:	-	

14.7. Maritime transport of bulk cargo according to International Maritime Organization instruments

Irrelevant information

SECTION 15. Regulatory information

15.1. Substance- or mixture-specific safety, health and environmental legislation/legislation

Seveso Category - Directive 2012/18/EC: P5c

Restrictions on the product or on the substances contained, according to Annex XVII Regulation (EC) 1907/2006 Product

Point 3 - 40

Substances contained

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors Regulated explosives precursor

The acquisition, introduction, possession or use of that regulated precursor by the general public shall be subject to reporting obligations pursuant to Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant National Unit

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SECTION 15. Regulatory information

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per contact.

Substances in Candidate Lis (Art. 59 REACH)

Based on the available data, it appears that the product does not contain SVHC substances at a rate \geq of 0,1%.

Substances subject to authorisation (Annex XIV REACH) NoneSubstances subject to the export notification obligation Regulation (EC) 649/2012: NoneSubstances subject to the Rotterdam Convention:

Any

Substances subject to the Stockholm Convention NoneSanitary checks

Workers who are exposed to this chemical product hazardous to health should not be subjected to medical supervision in cases where it is demonstrated that the risks to their safety and health are limited and that the measures provided for in Directive 98/24/EC are sufficient to reduce such a risk.

15.2. Safety assessment of a chemical substance or mixture

A safety assessment of the substance was carried out.

SECTION 16. Other information

The text with the instructions for (H) quoted in sections 2-3 of the map:

Flam. Liq. 2	Flammable liquid, category 2
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific organ toxicity - single exposure, category 3
H225	Highly flammable liquid and vapors.
H319	It causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure can cause dryness or cracking of the skin.

LEGEND:

- ADR: European Agreement on the Transport of Dangerous Goods by Road.
- CAS: Номер на Chemical Abstract Service
- CE50: Concentration that affects 50% of the population to be tested
- CE: ESIS (European Archive of Existing Substances) identification number
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived level without impact
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of Classification and Labelling of Chemical Products
- IATA DGR: International Air Transport Association Dangerous Goods Regulations
- IC50: Concentration of immobilization of 50% of the population to be tested
- IMDG: International Maritime Code for the Transport of Dangerous Goods
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Professional Exposure Degree
- OOT: Acute toxicity assessment
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Foreseeable concentration in the environment
- PEL: Predictable Exposure Level
- PNEC: Predictable concentration without consequences
- REACH: Regulation (EC) 1907/2006
- RID: Regulations for the International Transport of Dangerous Goods by Train
- TLV: Cut-off value
- TLV MAXIMUM VALUE: Concentration that should not be passed at any point during exposure during operation.
- TWA: Weighted Average Exposure Limit
- TWA STEL: Short-Term Exposure Limit
- VOC: Volatile Organic Compound

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SECTION 16. Other information ... / >>

- vPvB: Very persistent and highly bioaccumulative according to REACH
- WGK: Water hazard classes (Germany).

MAIN BIBLIOGRAPHY:

1. European Parliament Regulation (EC) 1907/2006 (REACH)
2. European Parliament Regulation (EC) No 1272/2008 (CLP)
3. Regulation (EU) 2020/878 (Annex II to the REACH Regulation)
4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) No 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Rules (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. European Parliament Regulation (EU) 2016/918 (VIII Atp. CLP)
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Toxicological sheet
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- Веб сайт IFA GESTIS
- Website ECHA Agency
- SDS Model Database for Chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note to the user:

The information contained in this manual is based on knowledge we have up to the date of the latest version. The user must be convinced of the accuracy and completeness of the information depending on the type of use of the product. This document should not be considered as a guarantee regarding the specific properties of the product.

As the use of the product is not under our direct control, the User is obliged to comply at his own risk with the Law and the current regulations in relation to hygiene and safety. No responsibility is taken for improper use of the product.

Provide appropriate information for personnel working on the use of chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and Physical Hazards: Product classification is based on criteria established by the Classification, Labelling and Packaging (CLP) Regulation, Annex I, Part 2. The data for the assessment of chemical and physical properties are referred to in Article 9.

Health hazards: The classification of the product shall be based on calculation methods according to Annex I of CLP, Part 3, unless otherwise specified in Section 11.

Environmental hazards: The classification of the product shall be based on calculation methods according to Annex I of CLP, Part 4, unless otherwise specified in Section 12.

Changes compared to the previous edition:

Changes have been made in the following parts:

02 / 09 / 11 / 12 / 15 / 16.