



MATERIAL SAFETY DATA SHEET (MSDS)

Product Name:	POLYQUANIL 7	Document code:	PSJ-RD-FR-22-00
Chemical name:	Polyquaternium-7	Revision number:	00
Chemical class:	Cationic Copolymer	Revision date:	

COMPANY IDENTIFICATION

Manufacturer: PADIDEH SHIMI JAM CO.

Tell: +98(21)88580000

Address: No.16, Western Fourth Golbarg St., Baharestan St., Dadman Blvd., TEHRAN, IRAN

HAZARDS IDENTIFICATION

Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in Regulation (EC) 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to Regulation (EU) 878/2020

Hazard classification and indication: None

LABEL ELEMENTS

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:	None
Signal words:	None
Hazard statements:	
EUH210	Safety data sheet available on request.
Precautionary statements:	None

OTHER HAZARDS

On the basis of available data, the product does not contain the following substances in percentage equal or greater than 0,1% w/w:

- PBT or vPvB substances;
- Confirmed endocrine disruptors included in the list of Substances of Very High Concern candidate for authorization (Candidate list) pursuant to art. 59 of Reg. (EU) 1907/2006
- Substances identified as having properties of interference with the endocrine system in accordance with the criteria established in the delegated regulation (EU) 2017/2100 or in the regulation (EU) 2018/605.P

COMPOSITION/ INFORMATION ON INGREDIENTS

This product may contain Acrylamide (CAS 79-06-1) < 10 ppm. It is a SVHC (Substance of Very High Concern) according to REACH Reg. EC 1907/2006.

Substances

Information not relevant

Mixtures

Identification	Concentration (x = Conc. %)	Classification according to Reg. EC 1272/2008 (CLP)
2-Propen-1-aminium, N,N-Dimethyl-N-2-Propenyl-, chloride polymer with 2-propenamide	8 ≤ x < 10	Aquatic Chronic 3, H412
Polyquaternium-7		
CAS Number 26590-05-6		
EC Number 607-965-4		
REACH Registration number.: Exempt from REACH registration in accordance with art. 2 (9) of Reg. EC 1907/2006		

The mixture and its further components are not classified as hazardous according to EU Regulation 1272/2008 (CLP) and its amendments, excepting for acrylamide, potentially present as a technically unavoidable impurity.



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Identification	Concentration (x = Conc. %)	Classification according to Reg. EC 1272/2008 (CLP)
Acrylamide	0 ≤ x < 0,1	Carc. 1B H350, Muta. 1B H340, Repr. 2 H361f, Acute Tox. 3 H301, Acute Tox. 4 H312, Acute Tox. 4 H332, STOT RE 1 H372, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
CAS Number 79-06-1		
EC Number 201-173-7		
INDEX Number 616-003-00-0		
REACH Reg. No.: 01-2119463260-48-XXXX		
		Classification note according to Annex VI to the CLP Regulation: D

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Description of first aid measures

No episodes of harm to the staff authorised to use the product have been reported. The following general measures should be adopted as necessary:

- Eyes:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. In the event of persistent irritation, get medical advice/attention.
- Skin:** Remove contaminated clothing. Wash immediately with plenty of water. In the case of persistent irritation, get medical advice/attention. Wash contaminated clothing before using it again.
- Inhalation:** Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately
- Ingestion:** Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

Indication of any immediate medical attention and special treatment needed

Information not available

Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. In case of fire, irritating and / or toxic fumes can be released (COx, HCl, Cl2, NOx).

Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

FIRST AID MEASURES

FIREFIGHTING MEASURES



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ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

HANDLING AND STORAGE

Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Wash hands after use.

Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Store the containers sealed, in a well ventilated place, away from direct sunlight.

Specific end use(s)

Information not available

EYE/ FACE PROTECTION

None in particular. In any case, it is good practice to wear airtight protective goggles (see standard EN 166).

HAND PROTECTION

Hand protection: None in particular. In any case, it is good practice to protect the hands with penetration-resistant work gloves (see standard EN 374).

Other: None in particular. In any case, it is good practice to wear professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).

TOXICOLOGICAL INFORMATION

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.



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Exposure controls/personal protection

Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА № 13 от 30 декември 2003 г (4Септември 2018г)
DNK	Danmark	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for stoffer og materialer ¹ - BEK nr 655 af 31/05/2018
FIN	Suomi	HTP-VÄRDEN 2018. Koncentrationer som befunnits skadliga. SOCIAL- OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 10/2018
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition,published 2018)
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18)
HUN	Magyarország	A pénzügyminiszter 7/2018. (VIII. 29.) PM rendelete a munkahelyek kémiai biztonságáról szóló 25/2000. (IX.30.) EüM– SZCSM együttes rendelet módosításáról
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 04.12.2018 - Uradnem listu RS št. 78 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

THERMAL HAZARDS.

There are no known thermal hazards related to the product. In case of combustion, avoid breathing fumes. In the eventuality, please refer to section 5 for the appropriate means of extinguishing and equipment for firefighters.

ENVIRONMENTAL EXPOSURE CONTROLS:

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards. Product residues must not be discharged without control in waste water or water courses.



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ACRYLAMIDE

Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	0,03			
TLV	DNK	0,03			SKIN
HTP	FIN	0,03			SKIN
VLEP	FRA	0,3	0,1		SKIN
WEL	GBR	0,3			SKIN
TLV	GRC	0,3			
GVI/KGVI	HRV	0,3			SKIN
AK	HUN			0,03 (C)	SKIN
TGG	NLD	0,16			SKIN
NDS/NDSch	POL	0,07			SKIN
TLV	ROU	0,03			SKIN
MV	SVN	0,06		0,24	SKIN
OEL	EU	0,1			
TLV-ACGIH		0,03			SKIN

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

Exposure controls

PROFESSIONAL EXPOSURE CONTROLS:

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Physical and chemical properties

Information on basic physical and chemical properties

Properties	Value	Information
Physical State	Viscous liquid	
Colour	Colourless	
Odour	Characteristic	
Melting point/freezing point	< 10°C	
Boiling point or initial boiling point and boiling range	> 100°C	
Flammability	Not available	
Lower and upper explosion limit	Not available	
Flash point	> 60°C	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
pH	5 – 8	
Kinematic viscosity	6000 - 20000	
Solubility	Miscible in water	
Partition coefficient n-octanol/water	Not applicable	
Vapour pressure	17,5 mmHg	
Density and/or relative density	1,010 kg/L	
Relative vapour density	Not available	
Particle characteristics	Not applicable	



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Other information

Information not available.

STABILITY AND REACTIVITY

Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

ACRYLAMIDE: The substance is sensitive to light and could polymerize if exposed.

Chemical stability

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

ACRYLAMIDE: The substance is stable at room temperature, but it can polymerize violently when dissolved or when heated above 50°C.

Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

ACRYLAMIDE: It may polymerize on contact with oxidizing agents and if it is exposed to high temperatures and UV rays. It may react violently with sulphuric acid.

Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

ACRYLAMIDE: Avoid exposure to UV rays and temperatures >50°C.

Incompatible materials

Information not available.

ACRYLAMIDE: Compounds containing –OH, –NH₂ and –SH groups. Reacts vigorously with acids and bases, producing ammonium salts and acrylic acid. It can polymerize in the presence of DMAPN catalysts, ammonium persulfate and oxidizing agents such as peroxides. Avoid reducing agents.

Hazardous decomposition products

Thermal decomposition and combustion can release toxic gases and vapors (CO_x, HCl, Cl₂, NO_x)

Information on toxicological effects

ACUTE TOXICITY: The product does not meet the classification criteria for this hazard class.

Mixture (calculated):

LD50 (inhalation) It does not meet the classification criteria for this hazard class.

LD50 (oral) It does not meet the classification criteria for this hazard class.

LD50 (dermal) It does not meet the classification criteria for this hazard class.

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LD50(oral) > 5000 mg/kg bw It does not meet the classification criteria for this hazard class

Acrylamide:

LD50 (oral, rat) = 354 mg/kg bw It meets the classification criteria for this hazard (EU Method B.1).

LD50 (dermal, rat) = 1 141 mg/kg bw It meets the classification criteria for this hazard (OECD 402).



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SKIN CORROSION / IRRITATION: The product does not meet the classification criteria for this hazard class.

ACRYLAMIDE: Not irritating (rabbit, OECD 404)

SERIOUS EYE DAMAGE / IRRITATION: The product does not meet the classification criteria for this hazard class.

ACRYLAMIDE: Irritating (rabbit, OECD 405)

RESPIRATORY OR SKIN SENSITISATION: The product does not meet the classification criteria for this hazard class.

ACRYLAMIDE: Sensitising (guinea pig, OECD 406)

GERM CELL MUTAGENICITY: The product does not meet the classification criteria for this hazard class.

ACRYLAMIDE: Mutagenic (in vivo, rat, OECD 478)

CARCINOGENICITY: The product does not meet the classification criteria for this hazard class.

ACRYLAMIDE: Carcinogenic, NOAEL = 0.5 mg/kg bw/day (rat, EPA OPP 83-2)

REPRODUCTIVE TOXICITY: The product does not meet the classification criteria for this hazard class.

ACRYLAMIDE: Reprotoxic, NOAEL = 2 mg/kg bw/day (rat, OECD 416)

SINGLE TARGET ORGAN TOXICITY - STOT - SINGLE EXPOSURE: The product does not meet the classification criteria for this hazard class.

SINGLE TARGET ORGAN TOXICITY - STOT - REPEATED EXPOSURE: The product does not meet the classification criteria for this hazard class.

ACRYLAMIDE: NOAEL = 0.5 mg/kg bw/day (rat, OECD 453), Target organs: mammary gland; thyroids, urogenital system and nervous system.

ASPIRATION HAZARD: The product does not meet the classification criteria for this hazard class.

INFORMATION ON OTHER HAZARDS On the basis of available data, the product does not contain the following substances in percentage equal or greater than 0,1% w/w:

PBT or vPvB substances;
 . Confirmed endocrine disruptors included in the list of Substances of Very High Concern candidate for authorization (Candidate list) pursuant to art. 59 of Reg. (EU) 1907/2006
 . Substances identified as having properties of interference with the endocrine system in accordance with the criteria established in the delegated regulation (EU) 2017/2100 or in the regulation (EU) 2018/605.P

ECOLOGICAL INFORMATION

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

TOXICITY

The product does not meet the classification criteria for ecotoxicity endpoints.

POLYQUATERNIUM-7:

It is classified "H412 - Harmful to aquatic life, Chronic toxicity, Category 3" according to Reg. EU 1272/2008.





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ACRYLAMIDE:

Short-term toxicity to fish: LC50 (96h Oncorhynchus mykiss, OECD 203) = 180 ppm

Toxicity to aquatic algae: EC50(72h, Pseudokirchneriella subcapitata, OECD 201) = 67,7 mg/l (biomass) - >100 mg/l (growth rate)

NOEC(72h, Pseudokirchneriella subcapitata, OECD 201) = 32 mg/l (biomass) – 56 mg/l (growth rate)

PERSISTENCE AND DEGRADABILITY **POLYQUATERNIUM -7:** Biodegradability: 30-50% (OECD 302B).

ACRILAMMIDE: Readily biodegradable (OECD 301D)

LogKow = 0,9 (20°C, pH 7, OECD 117)

Bioaccumulative potential Information not available.

Mobility in soil Information not available.

Results of PBT and vPvB assessment On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

Endocrine disrupting properties On the basis of available data, the product does not contain the following substances in percentage equal or greater than 0,1% w/w:

- . Confirmed endocrine disruptors included in the list of Substances of Very High Concern candidate for authorization (Candidate list) pursuant to art. 59 of Reg. (EU) 1907/2006
- . Substances identified as having properties of interference with the endocrine system in accordance with the criteria established in the delegated regulation (EU) 2017/2100 or in the regulation (EU) 2018/605.P

Other adverse effects Information not available.

DISPOSAL CONSIDERATIONS

Waste treatment methods

Reuse if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partially contains this product must be assessed on the basis of the laws in force. Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

TRANSPORT INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.





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UN number or ID number Not applicable

UN proper shipping name Not applicable

Transport hazard class(es) Not applicable

Packing group Not applicable

Environmental hazards Not applicable

Special precautions for user Not applicable

Maritime transport in bulk according to IMO instruments Information not relevant

REGULATORY INFORMATION Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC	None
Restrictions relating to the product or contained substances pursuant to Title VII and Annex XIV of Regulation (EC) 1907/2006	None
Restrictions relating to the product or contained substances pursuant to Title VIII and Annex XVII of Regulation (EC) 1907/2006	None
Substances in Candidate List (Art. 59 REACH)	Impurity: Acrylamide (CAS 79-06-1) < 0,1%
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:	None
Waste — Annex III, Directive 2008/98/EC	None
Persistent organic pollutants - Reg. (EU) 1021/2019 and its amendments	None
Dual Use — Regulation UE 428/2009 and its amendments	None
Precursors of chemical weapons - OPCW	None
Defence-related products - Directive 2009/43/EC and subsequent modifications	None
Goods which could be used for capital punishment, torture or other cruel, inhuman or degrading treatment or punishment - Reg. (EU) 125/2019 and its amendments	None
Explosives precursors - Reg. 1148/2019	None
Drug precursors - Reg. (CE) 111/2005 and its amendments	None
Substances that deplete the ozone layer — Reg. (EC) 1005/2009 and its amendments	None

Healthcare controls

Information not available

Chemical safety assessment A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.



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OTHER INFORMATION

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Carc. 1B	Carcinogenicity, category 1B
Muta. 1B	Germ cell mutagenicity, category 1B
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Eye Irrit. 2	Eye irritation, category 2

Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3

H350	May cause cancer.
H340	May cause genetic defects.
H361f	Suspected of damaging fertility.
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

LEGENDA:

ADR: European Agreement concerning the carriage of Dangerous goods by Road

CAS NUMBER: Chemical Abstract Service Number

CE50: Effective concentration (required to induce a 50% effect)

CE NUMBER: Identifier in ESIS (European archive of existing substances)

CLP: EC Regulation 1272/2008

DNEL: Derived No Effect Level

EmS: Emergency Schedule

GHS: Globally Harmonized System of classification and labeling of chemicals

IATA DGR: International Air Transport Association Dangerous Goods Regulation

IC50: Immobilization Concentration 50%

IMDG: International Maritime Code for dangerous goods

IMO: International Maritime Organization

INDEX NUMBER: Identifier in Annex VI of CLP

LC50: Lethal Concentration 50%

LD50: Lethal dose 50%

NOEL: No Observed Effect Level





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OEL: Occupational Exposure Level

PBT: Persistent bioaccumulative and toxic as REACH Regulation

PEC: Predicted Exposure Concentration

PNEC: Predicted no effect concentration

REACH: EC Regulation 1907/2006

REL: Recommended exposure limit

RID: Regulation concerning the international transport of dangerous goods by train

TLV: Threshold Limit Value

TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

TWA STEL: Short-term exposure limit

TWA: Time-weighted average exposure limit

VOC: Volatile organic Compounds

vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament and its amendments
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament and its amendments
3. Regulation (EU) 878/2020 of the Commission
4. Delegated Regulation (EU) 2100/2017 of the Commission
5. Regulation (EU) 605/2018 of the Commission and its modifications
6. Directive 2004/37/EC of the European Parliament and the Council
7. Regulation (EU)) 425/2016 of the European Parliament and the Council
8. The Merck Index. - 10th Edition
9. Handling Chemical Safety
10. INRS - Fiche Toxicologique (toxicological sheet)
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
13. IFA GESTIS Website
14. ECHA Website
15. Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) – Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products. Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

