

SPB49 - Master Matt

Safety Data Sheet

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

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

1.1. Product identifier

Code: SPB49
Product name: Master Matt

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

Intended use: Cosmetics, personal care products

1.3. Details of the supplier of the safety data sheet

Name: PASSIONE BEAUTY S.P.A.
Full address: Viale Crispi 89-93
District and Country: 36100 Vicenza Italia (VI)
Tel.: +39 0444-239569
e-mail address of the competent person responsible for the Safety Data Sheet: quality@pucosmetica.it

1.4. Emergency telephone number

For urgent inquiries refer to: +39 0444-239569

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.

2.2. Label elements

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.

Precautionary statements:

SPB49 - Master Matt

SECTION 2. Hazards identification ... / >>

P280	Wear protective gloves / eye protection / face protection.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P312	Call a POISON CENTRE / doctor / . . . if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P264	Wash . . . thoroughly after handling.
P362+P364	Take off contaminated clothing and wash it before reuse.

Contains:	acido metacrilico, monoestere con propano-1,2-diolo - FEMA Propan-2-ol N-butyl acetate
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2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
2-propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate		
INDEX	$23,5 \leq x < 25$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 4 H413
EC	607-559-5	
CAS	25133-97-5	
acido metacrilico, monoestere con propano-1,2-diolo - FEMA		
INDEX	$24 \leq x < 25,5$	Eye Irrit. 2 H319, Skin Sens. 1 H317
EC	248-666-3	
CAS	27813-02-1	
Propan-2-ol		
INDEX	$24 \leq x < 25,5$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC	200-661-7	
CAS	67-63-0	
REACH Reg.	01-2119457558-25-xxxx	
N-butyl acetate		
INDEX	$8,5 \leq x < 10$	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC	204-658-1	
CAS	123-86-4	
REACH Reg.	01-2119485493-29-XXXX	

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

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the room. Immediately remove the patient from the contaminated environment and keep him at rest in a well-ventilated area.
CALL A DOCTOR.

Ventilate the room. Immediately remove the patient from the contaminated environment and keep him at rest in a well-ventilated area.
In case of malaise consult a doctor.

If breathing has stopped, give artificial respiration.

Direct contact with the skin (of the pure product):

Take off contaminated clothing immediately.

Wash the affected areas of the body immediately with plenty of running water and possibly soap
in contact with the product, even if only suspected.

In case of contact with skin, wash immediately and abundantly with water

Warning: the product is toxic in contact with skin. Consult your doctor.

Direct contact with the eyes (of the pure product):

Wash immediately and abundantly with running water, with eyelids open, for at least 10 minutes; Therefore
protect the eyes with dry sterile gauze. Seek immediate medical attention.

SPB49 - Master Matt

SECTION 4. First aid measures ... / >>

Do not use eye drops or ointments of any kind before the visit or advice of the ophthalmologist.

Ingestion:

Not dangerous. It is possible to administer activated charcoal in water or medicinal mineral petroleum jelly oil.

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

No data available.

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

In case of skin irritation: consult a doctor.

If eye irritation persists, consult a doctor.

If you feel unwell, contact a POISON CENTER/doctor/...

SECTION 5. Firefighting measures**5.1. Extinguishing media**

Recommended extinguishing media:

Water spray, CO₂, foam, chemical powders depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use jets of water only to cool the surfaces of containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use respiratory protection.

Safety helmet and complete protective clothing.

Water spray can be used to protect people engaged in firefighting.

It is also advisable to use self-contained breathing apparatus, especially if you work in closed and poorly ventilated places and in any case if halogenated extinguishers are used (fluobrene, sulkane 123, naf etc.).

Cool the containers with jets of water

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

6.1.1 For those not directly involved:

Move away from the area surrounding the spill or release. Not smoking.

Wear mask, gloves and protective clothing.

6.1.2 For those directly involved:

Eliminate all open flames and possible sources of ignition. Not smoking.

Provide adequate ventilation.

Evacuate the danger area and, if necessary, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.

If the product has flowed into a watercourse, into a sewer system or has contaminated the soil or vegetation, notify the competent authorities.

Dispose of the residue in compliance with current regulations.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment

Collect the product quickly while wearing a mask and protective clothing.

Collect the product for reuse, if possible, or for disposal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning

To clean the floor and objects contaminated by this product, use water

After collection, wash the affected area and materials with water.

6.3.3 Other information:

None in particular.

SECTION 6. Accidental release measures ... / >>

6.4. Reference to other sections

Refer to steps 8 and 13 for further information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Evitare il contatto e l'inalazione dei vapori.
Indossare guanti/indumenti protettivi/Proteggere gli occhi/il viso.
Nei locali abitati non utilizzare su grandi superfici.
Durante il lavoro non mangiare né bere.
Gli indumenti da lavoro contaminati non devono essere portati fuori dal luogo di lavoro.
Vedere anche il successivo paragrafo 8.

7.2. Conditions for safe storage, including any incompatibilities

Mantenere nel contenitore originale ben chiuso. Non stoccare in contenitori aperti o non etichettati.
Tenere i contenitori in posizione verticale e sicura evitando la possibilità di cadute od urti.
Mantenere sempre ben chiusi i contenitori.
Conservare sempre in ambienti ben areati.
Non chiudere mai ermeticamente il contenitore, lasciare sempre una possibilità di sfiato.
Stoccare in luogo fresco, lontano da qualsiasi fonte di calore e dall'esposizione diretta dei raggi solari.
Proteggere dalle fonti di calore e dall'esposizione diretta del sole. Operare in ambiente ben ventilato. Conservare lontano da fiamme e scintille - Non fumare. Prendere misure preventive per evitare la produzione di cariche elettrostatiche.
Evitare il contatto con occhi . Non inalare i vapori o nebbie.

7.3. Specific end use(s)

Usi professionali:
A parte gli usi descritti nella sezione 1.2 non sono contemplati altri usi specifici.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

EU	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/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
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N-butyl acetate						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	241	50	723	150	

Propan-2-ol								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				140,9	mg/l			
Normal value in marine water				140,9	mg/l			
Normal value for fresh water sediment				552	mg/kg			
Normal value for marine water sediment				552	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral				26				
				mg/kg bw/d				
Inhalation				89				500
				mg/m3				mg/m3
Skin				319				888
				mg/kg bw/d				mg/kg
								bw/d

Legend:

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SECTION 8. Exposure controls/personal protection ... / >>

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard
; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

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.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

N-butyl acetate

DO NOT dispose of in the sewer. DO NOT allow this chemical to contaminate the environment

Propan-2-ol

HAND PROTECTION

Protect your hands with category III work gloves (ref. standard EN 374).

For the final choice of work glove material, the following must be considered: compatibility, degradation, breaking time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is unpredictable. The gloves have a wear time that depends on the duration and method of use.

SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional category I use (ref. Directive 89/686/EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

Evaluate the opportunity to provide anti-static clothing if the work environment presents a risk of explosiveness.

EYE PROTECTION

We recommend wearing airtight protective glasses (ref. standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is recommended to wear a mask with a type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) are present, combined filters must be provided.

The use of respiratory protection means is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. However, the protection offered by masks is limited.

In the event that the substance considered is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (ref. standard EN 137) or a self-contained breathing apparatus external air (ref. EN 138 standard). For the correct choice of respiratory protection device, refer to the EN 529 standard.

ENVIRONMENTAL EXPOSURE CONTROLS.

Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties
Appearance

Value
Color gel

Information

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SECTION 9. Physical and chemical properties ... / >>

Colour	not available
Odour	not available
Melting point / freezing point	not available
Initial boiling point	> 35 °C
Flammability	not available
Lower explosive limit	not available
Upper explosive limit	not available
Flash point	< 23 °C
Auto-ignition temperature	not available
Decomposition temperature	not available
pH	not available
Kinematic viscosity	not available
Solubility	not available
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	not available
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

Related to the substances contained:

Propan-2-ol:

There are no particular dangers of reaction with other substances under normal conditions of use.

Propan-2-ol

There are no particular dangers of reaction with other substances under normal conditions of use.

10.2. Chemical stability

No dangerous reactions if handled and stored as directed.

10.3. Possibility of hazardous reactions

No dangerous reactions are expected

10.4. Conditions to avoid

Related to the substances contained:

Propan-2-ol:

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

Propan-2-ol

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

10.5. Incompatible materials

May generate toxic gases in contact with strong oxidizing agents, strong reducing agents.

May ignite in contact with strong oxidizing agents.

10.6. Hazardous decomposition products

It does not decompose if used for its intended uses.

SECTION 11. 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.

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

N-butyl acetate

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its vapour.

RISKS BY INHALATION: A harmful contamination of the air will be reached quite slowly on evaporation of the substance at 20°C.

EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes and the respiratory tract. The substance may cause effects on the central nervous system. Exposure much higher than the OEL could cause decreased alertness.

EFFECTS OF REPEATED OR LONG-TERM EXPOSURE: The liquid has skin degreasing characteristics.

ACUTE RISKS/SYMPTOMS

INHALATION Cough. Sore throat. Vertigo. Headache.

SKIN Dry skin.

EYES Redness. Ache.

INGESTION Nausea.

LD50 oral - rat - 10700-14130 mg / kg

Propan-2-ol

Acute effects: contact with eyes causes irritation; Symptoms may include: redness, edema, pain and tearing. Ingestion can cause health problems, including abdominal pain with burning, nausea and vomiting.

The product contains very volatile substances that can cause significant depression of the central nervous system (CNS), with effects such as drowsiness, dizziness, loss of reflexes, narcosis.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

2-propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate

LD50 (Oral): > 2000 mg/kg ratto

LC50 (Inhalation vapours): 1,03 mg/l/4h ratto

N-butyl acetate

LD50 (Dermal): 17600 mg/kg rabbit

LD50 (Oral): 14130 mg/kg rat

LC50 (Inhalation vapours): 29,2 mg/l/4h rat

Propan-2-ol

LD50 (Dermal): 12800 mg/kg rat or rabbit

LD50 (Oral): 5840 mg/kg rat

LC50 (Inhalation gas): 72,6 ppm/4h rat

LC50 (Inhalation mists/powders): 72,6 mg/l/4h rat

LC50 (Inhalation vapours): 72,6 mg/l/4h rat

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SECTION 11. Toxicological information ... / >>

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

2-propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate

M factor = 1

C(E)L50 (mg/l) = 1

N-butyl acetate

The substance is harmful to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 72.8 - 205.0 mg / l - 24 h

M factor = 1

C(E)L50 (mg/l) = 1

Propan-2-ol

M factor = 1

C(E)L50 (mg/l) = 1

2-propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate

LC50 - for Fish > 100 mg/l/96h

EC50 - for Crustacea > 100 mg/l/48h

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h

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SECTION 12. Ecological information ... / >>

N-butyl acetate
LC50 - for Fish

100 mg/l/96h *Lepomis macrochirus*

12.2. Persistence and degradability

Propan-2-ol
Rapidly Biodegradable

12.3. Bioaccumulative potential

Propan-2-ol
Partition coefficient: n-octanol/water. 0.05

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

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

SECTION 14. 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.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

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SECTION 14. Transport information ... / >>

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

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SECTION 16. Other information ... / >>

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 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 (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
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Note for users:

SPB49 - Master Matt

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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.