

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/21/2017 Revision date: 8/14/2023

Supersedes version of: 3/21/2017

Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product form : Mixture Product name : PANDOMO SP-PS Komponente B Product code 4956 · 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : Construction materials Industrial/Professional use spec : For professional use only : PANDOMO Use of the substance/mixture : Construction materials Function or use category 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Supplier ARDEX Baustoff GmbH Hürmer Str., 40 AT- A-3382 Loosdorf Österreich T +43/2754/7021-0 - F +43/2754/2490 E-mail address of competent person responsible for the SDS : produktion@ardex.at 1.4. Emergency telephone number Emergency number : +43-(0)1-4064343 (Vergiftungsinformationszentrale Österreich) SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] H332 Acute toxicity (inhal.), Category 4 Skin sensitisation, Category 1 H317 Specific target organ toxicity - Single exposure, Category 3, Respiratory H335 tract irritation Hazardous to the aquatic environment - Chronic Hazard, Category 3 H412 Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Contains	: Hexane, 1,6-diisocyanato-,homopolymer,polyethylene glycol mono-Me ether-blocked
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction.
	H332 - Harmful if inhaled.
	H335 - May cause respiratory irritation.
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
	P280 - Wear eye protection, face protection, protective gloves, protective clothing. P273 - Avoid release to the environment.
	P261 - Avoid breathing spray, vapours, gas, mist.
	P102 - Keep out of reach of children.
EUH-statements	: EUH204 - Contains isocyanates. May produce an allergic reaction.
Extra phrases	 Dispose of contents/container in accordance with regional/national/international/local regulations.
	As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant - no registration required

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hexane, 1,6-diisocyanato-,homopolymer,polyethylene glycol mono-Me ether-blocked	CAS-No.: 160994-68-3 EC-No.: 679-501-7	< 100	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	 Remove dirty clothes. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash skin with plenty of water.
First-aid measures after eye contact	: In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell. Rinse mouth thoroughly with water.

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

Symptoms/effects

: If symptoms persist call a doctor. May cause dermatitis by skin contact.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture					
Suitable extinguishing media Unsuitable extinguishing media	 Use extinguishing media appropriate for surrounding fire. Dry powder. Carbon dioxide. Do not use a heavy water stream. 				

Fire hazard Explosion hazard Reactivity in case of fire Hazardous decomposition products in case of fire	 Not dangerous. None. Product is not explosive. Toxic vapours may be released. irritating vapours may be released.
5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions Protection during firefighting	 Adapt extinguishing measures to the environment. Evacuate area. Contain the extinguishing fluids by bunding. Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. In case of fire and/or explosion do not breathe fumes.
Other information	 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated extinguishing water separately and must not enter the sewage system.

SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures General measures : Ensure adequate air ventilation. Keep unprotected persons away. Absorb spillage to prevent material damage. 6.1.1. For non-emergency personnel

Protective equipment	: Concerning personal protective equipment to use, see section 8.
Emergency procedures	: Avoid contact with skin and eyes.
Measures in case of dust release	: Wear breathing apparatus if exposed to vapours/dusts/aerosols.
6.1.2. For emergency responders	
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters. Advise local authorities if considered necessary.

6.3. Methods and material for containment and cleaning up For containment : Collect spillage. Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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Other information

: Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

For further information refer to section 13. See Section 8.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	 See Section 8. Wear personal protective equipment. Ensure good ventilation of the work station. As from 24 August 2023 adequate training is required before industrial or professional use.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Store in original container. Keep container tightly closed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
Storage area	: Keep out of frost.
7.3. Specific end use(s)	

Comply with instructions for use (refer to technical sheet).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Avoid splashing. Wear closed safety glasses

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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves	Nitrile rubber (NBR), Polyvinylchloride (PVC)	Please follow the instructions related to the permeability and the penetration time provided by the manufacturer	0,5	Refer to supplier/manufacturer	

8.2.2.3. Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Respiratory protection			
Device	Filter type	Condition	Standard
Respiratory protective device with a combined gas and particle filter	A-P2	In case of inadequate ventilation wear respiratory protection.	

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Observe general hygiene measures when handling chemicals. Keep away from food, drink and animal feeding stuffs. Do not breathe gas/vapour/aerosol. As from 24 August 2023 adequate training is required before industrial or professional use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state :	Liquid
Colour :	Colourless. light yellow.
Appearance :	Liquid.
Odour :	Barely perceptible.
Odour threshold :	Not available
Melting point :	Not applicable
Freezing point :	Not available
Boiling point :	Not available
Flammability :	Not applicable
Explosive limits :	Not available
Lower explosion limit :	Not available
Upper explosion limit :	Not available
Flash point :	≈ 195 °C
Auto-ignition temperature :	Not available
Decomposition temperature :	Not available
pH :	Not available
Viscosity, kinematic :	Not available
Solubility :	insoluble in water.
Partition coefficient n-octanol/water (Log Kow) :	Not available

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Vapour pressure	: ~5 hPa@20°C / ~10 hPa @ 50°C / ~11 hPa @ 55°C
Vapour pressure at 50°C	: Not available
Density	: 1.15 g/cm ³
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION	10: Stability	and reactivity
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10.1. Reactivity

None.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Harmful if inhaled. 	
PANDOMO SP-PS Komponente B		
ATE CLP (gases)	4500 ppmv/4h	
ATE CLP (vapours)	11 mg/l/4h	
ATE CLP (dust,mist)	1.5 mg/l/4h	
Hexane, 1,6-diisocyanato-,homopolymer,polyethylene glycol mono-Me ether-blocked (160994-68-3)		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 Inhalation - Rat	0.39 mg/l	
ATE CLP (gases)	4500 ppmv/4h	
ATE CLP (vapours)	11 mg/l/4h	

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Hexane, 1,6-diisocyanato-,homopolymer,po	olyethylene glycol mono-Me ether-blocked (160994-68-3)
ATE CLP (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
Hexane, 1,6-diisocyanato-,homopolymer,po	olyethylene glycol mono-Me ether-blocked (160994-68-3)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
No additional information available	
11.2.2. Other information	
Potential adverse human health effects and	: No data available
symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse
	effects in the environment.
Hazardous to the aquatic environment, short-term	: Not classified
(acute)	
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
· · · · · · · · · · · · · · · · · · ·	blyethylene glycol mono-Me ether-blocked (160994-68-3)
EC50 - Other aquatic organisms [1]	> 100 mg/l Daphnia magna (Water flea)
ErC50 algae	> 100 mg/l
12.2. Persistence and degradability	
PANDOMO SP-PS Komponente B	
Persistence and degradability	Not applicable.
12.3. Bioaccumulative potential	
PANDOMO SP-PS Komponente B	
Bioaccumulative potential	No bioaccumulation.
12.4. Mobility in soil	
-	
PANDOMO SP-PS Komponente B	

PANDOMO SP-PS Komponente B	
Ecology - soil	No information available.

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12.5. Results of PBT and vPvB assessment	
PANDOMO SP-PS Komponente B	
PBT: not relevant – no registration required	
vPvB: not relevant – no registration required	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Do not dispose of with domestic waste. Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose of contents/container in accordance with regional/national/international/local regulations.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Packaging that is not properly emptied must be disposed of as the unused product.
European List of Waste (LoW) code	 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances 08 05 01* - waste isocyanates

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	shipping name	÷		÷
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	nazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environme	ntal hazards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
		No supplementary information	on available	I

14.6. Special precautions for user

- Overland transport

Not applicable

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- Transport by sea Not applicable

- Air transport Not applicable

- Inland waterway transport Not applicable

- Rail transport Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Other information, restriction and prohibition	: 1. Shall not be used as substances on their own, as a constituent in other substances or in
regulations	 (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or
	(b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).
	 Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:
	(a) the concentration of diisocyanates individually and in combination is less than 0,1 $\%$ by weight, or
	(b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".
	3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.
	4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training.
	 That training shall cover as a minimum: (a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s) (b) the training elements in points (a) and (b) of paragraph 5 for the following uses: — handling open mixtures at ambient temperature (including foam tunnels); — spraying in a ventilated booth; — application by roller;
	 — application by brush; — application by dipping and pouring;
	 — mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore; — cleaning and waste;
	 — any other uses with similar exposure through the dermal and/or inhalation route; (c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses: — handling incompletely cured articles (e.g. freshly cured, still warm); — foundry applications; — maintenance and repair that needs access to equipment;
	 — open handling of warm or hot formulations (> 45 °C); — spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers); — and any other uses with similar exposure through the dermal and/or inhalation route.
	5. Training elements:
	 (a) general training, including on-line training, on: — chemistry of diisocyanates;
	— toxicity hazards (including acute toxicity);
	— exposure to diisocyanates;
	 — occupational exposure limit values; — how sensitisation can develop;
	— odour as indication of hazard;
	— importance of volatility for risk;
	 viscosity, temperature, and molecular weight of diisocyanates;
	 — personal hygiene; — personal protective equipment needed, including practical instructions for its correct use
	and its limitations; — risk of dermal contact and inhalation exposure;
	- risk in relation to application process used;

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- skin and inhalation protection scheme;
- ventilation;
- cleaning, leakages, maintenance;
- discarding empty packaging;
- protection of bystanders;
- identification of critical handling stages;
- specific national code systems (if applicable);
- behaviour-based safety;
- certification or documented proof that training has been successfully completed
- (b) intermediate level training, including on-line training, on:
- additional behaviour-based aspects;
- maintenance;
- management of change;
- evaluation of existing safety instructions;
- risk in relation to application process used;
- certification or documented proof that training has been successfully completed
- (c) advanced training, including on-line training, on:
- any additional certification needed for the specific uses covered;
- spraying outside a spraying booth;
- open handling of hot or warm formulations (> 45 °C);
- certification or documented proof that training has been successfully completed

6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.

7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.

8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.

9. Member States shall include in their reports pursuant to Article 117(1) the following information:

(a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law;

(b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates;

- (c) national exposure limits for diisocyanates, if there are any;
- (d) information about enforcement activities related to this restriction.

10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation) Acute toxicity (inhal.), Category 4

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Full text of H- and EUH-statements:		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
EUH204	Contains isocyanates. May produce an allergic reaction.	
H317	May cause an allergic skin reaction.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.