1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name	:	ITEX POWER ADHESIVES PU75 / PU75O
• **1.2 Relevant identified uses of the substance or mixture and uses advised against:**	:	Hot-melt adhesives Please call us at the above telephone number to clarify further uses. We will connect you with the Applications Engineering staff who can help you.
1.3 Details of the supplier of the safety data sheet:	:	**Itex Imaging Products SL** Av del Progres 7 E-08340 Vilssar de Mar
1.4 Emergency telephone number:	:	+34 937506561
Email address	:	info@iteximaging.com

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2. Hazards Identification

2.1. Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.
H412 Harmful to aquatic life with long lasting effects.
According to Regulation (EC) No 1272/2008
No need for classification according to GHS criteria for this product.

2.2. Label elements

In accordance with Regulation (EC) No 1272/2008
The product does not require a hazard warning label in accordance with GHS criteria.

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]
PBT properties: none
vPvB properties: none
Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
Determination of endocrine-disrupting properties: none

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3. Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Polymer based on: polyurethane, stabilizing agents, additives, organic phosphorous compound

Regulatory relevant ingredients
Does not contain any hazardous ingredients.

4. First-Aid Measures

4.1. Description of first aid measures

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing.

After inhalation:
Supply fresh air; consult doctor in case of symptoms.

After skin contact:
Wash immediately with plenty of water and soap and rinse thoroughly. Burns caused by molten material require hospital treatment.

After contact with eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

After swallowing:
Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention.

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

Symptoms: (Further) symptoms and / or effects are not known so far.

Hazards: No hazards anticipated.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Water spray jet, extinguishing powder, CO_2, foam.
Unsuitable extinguishing agents for reasons of safety: None

5.2 Special hazards arising from the substance or mixture

In case of fire, toxic incineration products may be released such as: carbon monoxide, Carbon dioxide, hydrogen cyanide, nitrogen oxides, isocyanate phosphorus oxides (PxOy).
Advice: The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for firefighters

Protective equipment:
Wear a self-contained breathing apparatus.

Further information:
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (see item 8)

Sweep up with mechanical means and dispose of it as a solid, harmless product.
High risk of slipping due to leakage/spillage of product.

In case product dust is released: Dust mask

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow product to enter waters without treatment in a (biological) water treatment plant.
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Collect mechanically.
Large spill
Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill
Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Provide good room ventilation or local exhaust ventilation at the workplace. Assess hazards arising from work equipment and work places.
Information about protection against explosion and fire:
Dust can combine with air to form an explosive mixture.
Protect against electrostatic charges.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Keep ignition sources away - do not smoke.

In case of spillage, sweep up, so as to avoid possible risks of slipping. Put on appropriate personal protective equipment (see section 8). Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers:
Keep in well-closed containers and at a temperature below 25°C.
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Never stack pallets more than two high to prevent the risk of them falling over.
Information about storage in a common storage facility: none
Further information about storage conditions: none

Packaging materials
Recommended Use original container.
Suitable materials for containers: Paper/Fibreboard, High density polyethylene (HDPE), Low density polyethylene (LDPE)

7.3. Specific end use(s)
For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters
Components with critical values that require monitoring at the workplace:
The substances mentioned are contained only in traces in the product.

822-06-0: hexamethylene-di-isocyanate

PNEC
0.064 mg/l, fresh water, evaluation factor 1000
0.124 mg/kg, sediment (freshwater)
0.006 mg/l, sea water, evaluation factor -.

DNEL
No DNEL value available.

Additional information: Information valid at the time of review of safety data sheet.

Recommended monitoring
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.2. Exposure controls
Individual protection measures, such as personal protective equipment
General protective and hygienic measures:

Avoid contact with the eyes and the skin.
Wash hands during work breaks and at the end of the shift.
Use skin cream for skin protection.
Provide skin protection plan.

Occupational exposure controls
No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection
Put on respiratory equipment if dust develops.


Filter P2 (EN 149:2001+A1:2009)

Recommendation: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Dust-protection mask P2

Hand protection


Chemical protective gloves (EN ISO 374-1:2016)

Check the condition of protective gloves after each use for any damages like holes, cuts or tears.
After use of gloves apply skin-cleaning agents and skin cosmetics.
Do not wear protective gloves longer than necessary.
Material of gloves Nitrile rubber, NBR
Penetration time of glove material:
Thickness: 0.4 mm; break-through time: 480 min; material: Nitrile; permeation: level 6

Protective heat-insulating gloves are to be used during thermal processing.
Any areas of skin covered with dust must be washed immediately with soap and water as the powder draws out natural moisture from the skin.
Use barrier cream regularly.

Eye/face protection


Safety glasses (EN 166)

Recommendation: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Body protection:

overalls

Protective clothing for use against solid particulates (EN ISO 13982-1)

Recommendation: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form/ physical state	Powder
Colour	White to semi transparent
Odour	Hardly noticeable

Change of state of

Melting point/ range: 110 – 120 °C (KOFLER) / softening range: 105 °C (KOFLER)

Explosive limits:

- lower limit	not applicable
- upper limit	not applicable

Explosive properties (Powder): Dusts can form explosive mixtures with air.

Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources.

Flash point: not applicable, the product is a solid

Auto-ignition temperature: > 350 °C

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
> 230 °C
Thermal decomposition above the indicated temperature is possible.
Prolonged thermal loading can result in products of degradation being given off.

SADT: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

pH value: not applicable

Viscosity, kinematic: not applicable, the product is a solid

Viscosity, dynamic: not applicable

Solubility in water: insoluble

Partitioning coefficient n-octanol/water (log Kow): not applicable

Vapour pressure: not applicable

Relative density: approx. 1.1 - 1.2 (20 °C)

Density: 1.1-1.2 g/cm3 (20 °C)

Relative vapour density (air): not applicable

9.2. Other information

The range of values given complies with the variation range of the product group. The specific physical chemical data can be read in the product information.

Information with regard to physical hazard classes

Oxidizing properties

Fire promoting properties: not fire-propagating

Flammable solids

Burning rate: The material doesn't meet the criteria specified in paragraph 33.2.4.4 of UN manual of tests and criteria.

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.

Corrosion to metals

No corrosive effect on metal.

Other safety characteristics

Radioactivity: not radioactive for transport purposes

Bulk density: 400 - 600 kg/m3 (20 °C)

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

SAPT-Temperature:

Product does not fulfil criteria for polymerizing substances according to transport regulations.

Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: The evaluation of the relevant available information does not show an indication of any metal corrosive property.

Reactions with water/air:	Reaction with:	water	no
		Flammable gases:	no
		Toxic gases:	no

10.2. Chemical stability

The product is chemically stable.

Peroxides: The product does not contain peroxides.
The product/the substance has not a tendency towards the formation of peroxide.

Conditions to be avoided: No decomposition if used according to specifications.

Minimum shelf life: 12 months from production date

10.3. Possibility of hazardous reactions

No hazardous reactions known if stored and handled as prescribed/indicated.

The product is chemically stable.

10.4. Conditions to avoid
No further relevant information available.

10.5. Incompatible materials
Substances to avoid:
No further relevant information available

10.6. Hazardous decomposition products
None, if storage and handling is done according to specification.
Gaseous products of degradation can be given off if the product is greatly overheated.
Possible thermal decomposition products:
carbon monoxide, Carbon dioxide, hydrogen cyanide, isocyanates, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity: Based on available data, the classification criteria are not met.

Acute toxicity estimates (ATE) or LD_{50}/LC_{50} values:		
oral	ATE	> 5,000 mg/kg
dermal	ATE	2,000 mg/kg (calculated)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Results of studies:	
3001-98-7 organic phosphorous compound	
OECD 431 (in vitro skin corrosion)	(human skin model) not irritant - S 3841
OECD 439: In Vitro Skin Irritation	(human) not irritant – S3836

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Results of studies:	
3001-98-7 organic phosphorous compound	
OECD 438 (isolated chicken eye test)	(chicken) irritant - S 4090
OECD 492 (in vitro ocular irritation test)	(human cornea model) not irritant - S 3836

Sensitisation: Based on available data, the classification criteria are not met.

Results of studies:	
3001-98-7 organic phosphorous compound	
OECD 429	(mouse) not sensitising - S 3922

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties
Data on endocrine disrupting properties for human health are not available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:	
3001-98-7 organic phosphorous compound	
EC_{50} / 72 h EC_{50} / 48 h LC_{50} / 96 h	> 100 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 4745 > 100 mg/l (Daphnia) (OECD 202) S 4658 > 100 mg/l (Brachydanio rerio) (OECD 203) S 4719

Evaluation:
Based on the available data the classification criteria for hazard classes aquatic acute (short term) toxicity are not fulfilled.
Based on the available data the classification criteria for hazard classes aquatic, chronic (long term) toxicity are not fulfilled.

Effect on activated sludge organisms:	
3001-98-7 organic phosphorous compound	
EC_0	> 1,000 mg/l (bacteria) (OECD 209) S 4320

Evaluation:
If contaminated effluent water is properly entered into the sewage system, any interference with the degrading activity of the activated sludge organisms is not expected.

12.2. Persistence and degradability

Rapid degradability of organic substances:	
3001-98-7 organic phosphorous compound	
OECD 301 F Manometric Respiratory	< 60 % (Activated Sludge) S 4098

Evaluation:
This mixture contains ingredients which are eliminable only moderately in the wastewater treatment plant and are not rapidly biodegradable in waters.
Substances are considered rapidly degradable in the environment if one of the following criteria holds true: if, in 28-day ready biodegradation studies, at least the following levels of degradation are achieved within 10 days of the start of degradation: 70% dissolved organic carbon or 60% oxygen depletion or carbon dioxide generation; (see GB CLP-Regulation Annex I section 4.1.2.9 and GB CLP Guidance version 4.1 Annex II.2)

Behaviour in sewage treatment plants:	
3001-98-7 organic phosphorous compound	
OECD 302 B Zahn-Wellens Test	< 20 % (Activated Sludge) S 3705

Evaluation: Can be slightly/moderately eliminated from water.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF) / octanol/water partition coefficient (LogKow):	
3001-98-7 organic phosphorous compound	
OECD 117 Log Kow Partition Coefficient	-2.9 (n-octanol/water) S 4721

Evaluation: Does not significantly accumulate in organisms.

12.4. Mobility in soil

Assessment transport between environmental compartments.
Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria.

12.6. Endocrine disrupting properties

Data on endocrine disrupting properties on the environment are not available.

12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.
Phosphorous content (Ptot.): The phosphorous contained in the mixture is not bioavailable.
Metals and their compounds (Directive 2006/11/EC): None
European Water Framework Directive (2000/60/EC):
The product does not contain any priority substances according WFD that require a water monitoring.

12.8. Additional information

Absorbable organic halogen compounds (AOX - DIN EN ISO 9562 H 14):
The product does not contain substances, which can influence the AOX of waste water.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation
Non-hazardous waste. To be disposed of in an environmentally compatible manner.
Appropriate disposal operations according to Directive 2008/98/EC on waste: D 10 Incineration on land.
The waste codes are manufacturer's recommendations based on the designated use of the product. Other use and special waste disposal treatment on customer's location may require different waste-code assignments.

European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	off-specification batches and unused products
16 03 06	Organic wastes other than those mentioned in 16 03 05
07 02 13	waste plastic

Contaminated packaging:
Recommendation:
Packaging can be reused or recycled after cleaning.
Cleaning liquid can be fed to a biological wastewater treatment plant.
Empty packaging must be reconditioned to be reused or recycled.

14. TRANSPORT INFORMATION

Land transport
ADR
Not classified as a dangerous good under transport regulations

14.1 UN number or ID number:
ADR, IMDG, IATA Not applicable

14.2 UN proper shipping name:
ADR, IMDG, IATA Not applicable

14.3 Transport hazard class(es):
ADR, IMDG, IATA Not applicable
Class

14.4 Packing group:
ADR, IMDG, IATA Not applicable

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user:
Not applicable

14.7 Maritime transport in bulk according to IMO instruments Not applicable

Transport/Additional information: No dangerous goods.
UN "Model Regulation": None

RID Not classified as a dangerous good under transport regulations

Inland waterway transport

AND Not classified as a dangerous good under transport regulations

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: None known

Transport in inland waterway vessel
Not evaluated

Sea transport

IMDG
Not classified as a dangerous good under transport regulations

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:
None known

Air transport

IATA/ICAO
Not classified as a dangerous good under transport regulations

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
None known

15. REGULATORY INFORMATION

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

- **Regulation (EU) 2021/821 (Dual-use regulation) 1C450 b 1**
- **Chemical Weapons Convention (CWC) List 2 B 4**
- **Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

- **Regulation (EC) No 273/2004 on drug precursors**

Substance is not listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

- **National regulations:**
- **Regulations which may apply in event of accident: Control of Major Accident Hazards (COMAH)**

This substance/mixture is not subject to ordinance on industrial accidents (Seveso Directive; substance list, Annex I).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Methods of evaluating information used for the purpose of classification:
The evaluation of the available information within the scope of classification refers to the forms and aggregate states in which the mixture has been placed on the market and will be used most likely.

Abbreviations and acronyms:
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DIN EN: European norm adopted as a German standard. DNEL = Derived No Effect Level. ECxx: Effect concentration, xx percent. EC = European Community. EINECS: European Inventory of Existing Commercial Chemical Substances. EN = European Standards. EN ISO: iso norm adopted as a European standard. FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act. GB CLP: Classification, Labelling and Packaging. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN: United Nations. UN-number = UN number at transport. UK REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals. U.S. EPA: United States Environmental Protection Agency. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.