

# Safety Data Sheet

## 3D Matrix Coating Light

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Product name P5  
Brand Pureest

**Relevant identified uses of the substance or mixture and uses advised against**  
Relevant identified uses: Nano Coating

#### Details of the supplier of the safety data sheet

Name Pureest AB  
Address Tegelvägen 2  
44361 Stenkullen  
Sweden

Telephone +31 12 92 94  
email info@pureest.se

#### Emergency telephone number

SOS

### SECTION 2: Hazards identification

#### General hazard statement

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided for manufacturing, distribution, and workplace settings.

#### Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 (CLP)

- Flammable liquids, Cat. 3, H226
- Specific target organ toxicity following single exposure, Cat. 3, H335, H336
- Skin corrosion/irritation, Cat. 2, H315

For the full text corresponding to the "H"-codes displayed in this section, refer to Section 16.

#### Label elements

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

#### Hazard pictograms

1. Flame; 2. Exclamation mark

## Signal word

### Hazard statement(s)

H226  
H315  
H336

## Warning

Flammable liquid and vapor  
Causes skin irritation  
May cause drowsiness or dizziness

### Precautionary statement(s)

P210  
  
P233  
P240  
P241  
P242  
P243  
P261  
P264  
P271  
P280  
P302+P352  
P303+P361+P353  
  
P304+P340  
P312  
P321  
P332+P313  
P362+P364  
P370+P378  
P403+P233  
P403+P235  
P405  
P501

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Ground and bond container and receiving equipment.  
Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
Use non-sparking tools.  
Take action to prevent static discharges.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash ... thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of water/...  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor/... if you feel unwell.  
Specific treatment (see ... on this label).  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use ... to extinguish.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to ...

## SECTION 3: Composition/information on ingredients

### Mixtures

### Components

#### 1. Silsesquioxanes, Me Ph

Concentration < 50 % (volume)  
CAS no. 67763-03-5

#### 2. Heptane

Concentration < 40 % (volume)  
EC no. 205-563-8  
CAS no. 142-82-5  
Index no. 601-008-00-2

- Flammable liquids, Cat. 2
- Aspiration hazard, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity following single exposure, Cat. 3
- Hazardous to the aquatic environment, short-term (acute), Cat. 1

- Hazardous to the aquatic environment, long-term (chronic), Cat. 1

H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

### 3. N-Butyl acetate

Concentration	< 20 % (volume)
EC no.	204-658-1
CAS no.	123-86-4
Index no.	607-025-00-1

- Flammable liquids, Cat. 3  
- Specific target organ toxicity following single exposure, Cat. 3

H226	Flammable liquid and vapor
H336	May cause drowsiness or dizziness

## SECTION 4: First aid measures

### Description of first aid measures

General notes	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
Following inhalation	Call a poison center or doctor if you feel unwell.  Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
Following skin contact	Wash with plenty of soap and water for at least 15 minutes. Call a poison center or doctor if you feel unwell.  Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
Following eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.  Acute and delayed symptoms and effects: May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
Following ingestion	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.  Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Self-protection of the first aider                      No recommendation given.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed**

No recommendation given.

**SECTION 5: Firefighting measures**

**Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Carbon oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

Use water spray to cool unopened containers.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.

As an immediate precautionary measure, isolate spill or leak area in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate enclosed areas.

**Environmental precautions**

Keep out of drains, sewers, ditches, and waterways.

**Methods and material for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Reference to other sections**

For disposal see section 13.

**SECTION 7: Handling and storage**

**Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Keep out of the reach of children.

**Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection**

**Control parameters**

**CAS: 123-86-4 (EC: 204-658-1)**

n-Butyl-acetate

ACGIH (USA): 150 ppm, (ST) 200 ppm TLV® inhalation; Cal/OSHA: 150 ppm, (ST) 200 ppm PEL inhalation;  
NIOSH: 150 ppm, (ST) 200 ppm REL inhalation; OSHA: 150 ppm PEL inhalation  
N-BUTYLACETATE  
150 ppm  
710 mg/m3 PEL inhalation; Cal/OSHA: 200 ppm  
950 mg/m3 STEL inhalation

**CAS: 142-82-5**

Heptane

NIOSH (USA): 85 ppm, (ST) 440 ppm [15-min] REL inhalation; OSHA (USA): 500 ppm PEL inhalation

**Exposure controls**

**Appropriate engineering controls**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protection equipment**

**Eye and face protection**

Safety glasses with side-shields.

**Skin protection**

Protective gloves, such as nitrile gloves.

**Body protection**

Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Thermal hazards**

No data available.

**Environmental exposure controls**

Do not let product enter drains. 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.

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

Appearance	Liquid
Odour	Light Ammonia
Odour threshold	No data available.
pH	No data available.
Melting point / freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	63°C at 101.3kPa
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapour pressure	No data available.

Vapour density	No data available.
Relative density	0.95 g/cm <sup>3</sup>
Solubilit(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidising properties	No data available.

### Other information

Other information

Wt. % Solids:

Vol. % Solids:

Wt. % Volatiles:

VOC Content (%):

## SECTION 10: Stability and reactivity

### Reactivity

No data available.

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

No data available.

### Conditions to avoid

Contact with incompatible materials. Sources of ignition. Exposure to heat.

### Incompatible materials

N-Butyl acetate: Strong oxidizing agents, Strong reducing agents, Strong bases

### Hazardous decomposition products

N-Butyl acetate: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Components:

N-BUTYLACETATE

LD50 Oral - Rat - 10,760 mg/kg

Citation: (OECD Test Guideline 423)

N-BUTYLACETATE

LC50 Inhalation - Rat - 21 mg/l - 4 h

Citation: (OECD Test Guideline 403)

N-BUTYLACETATE

LD50 Skin - Rabbit - >14,112 mg/kg

Citation: (OECD Test Guideline 402)

Symptoms (including delayed and immediate effects):

Inhalation: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Skin corrosion/irritation**

May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Serious eye damage/irritation**

May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Respiratory or skin sensitization**

No data available.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

N-BUTYLACETATE

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available.

**Summary of evaluation of the CMR properties**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Additional information**

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Heptane: guinea pig LC inhalation > 17937ppm/4H (17937ppm) National Technical Information Service. Vol. OTS0556754,  
human TCLo inhalation 1000ppm/6M (1000ppm) BEHAVIORAL: "HALLUCINATIONS, DISTORTED PERCEPTIONS"  
"U.S. Bureau of Mines Report of Investigation No. 2979," Patty, F.A., and W.P. Yant, 1929Vol. 2979, Pg. -, 1929.  
mouse LCLo inhalation 59gm/m3/41M (59000mg/m3) BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE  
THRESHOLD Biochemische Zeitschrift. Vol. 115, Pg. 235, 1921.  
mouse LD50 intravenous 222mg/kg (222mg/kg) Journal of Pharmaceutical Sciences. Vol. 67, Pg. 566, 1978.  
[Link to PubMed](#)

rat LC50 inhalation 103gm/m3/4H (103000mg/m3) Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 32(10), Pg. 23, 1988.

## SECTION 12: Ecological information

### Toxicity

Components:

#### N-BUTYLACETATE

LC50 - Pimephales promelas (fathead minnow) - 18 mg/l - 96 h

Citation: (OECD Test Guideline 203)

#### N-BUTYLACETATE

LC50 - Daphnia magna (water flea) - 44 mg/l - 48 h

#### N-BUTYLACETATE

EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 674.7 mg/l - 72 h

### Persistence and degradability

No data available on product

### Bioaccumulative potential

No data available on product

### Mobility in soil

No data available.

### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### Waste treatment methods

#### Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

#### Disposal of contaminated packaging

Dispose of as unused product.

### Waste treatment

Contact a licensed professional waste disposal service. Contaminated packing must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant in accordance with applicable regulations. Regulation of the Minister of the Environment of 9 December 2014 on the waste catalog (Journal of Laws, item 1923). Council Directive No. 75/442 / EEC on waste. Council Directive No. 91/689 / EEC on waste Department Decision No. 2000/532 / EC of May 3, 2000 providing a list of waste, OJ No. L 226/3 of 6 September 2000, along with amending decisions.

## SECTION 14: Transport information

UN Number	None
UN Proper Shipping Name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	None



Special precautions for user None  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code None

## **SECTION 15: Regulatory information**

### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

n-Butyl acetate  
CAS number: 123-86-4

#### **New Jersey Right To Know Components**

No components are subject to the New Jersey Right to Know Act.

n-Butyl acetate  
CAS number: 123-86-4

Common name: n-HEPTANE  
CAS number: 142-82-5

#### **Pennsylvania Right To Know Components**

No components are subject to the Pennsylvania Right to Know Act.

n-Butyl acetate  
CAS number: 123-86-4

Chemical name: Heptane  
CAS number: 142-82-5

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 311/312 Hazards**

No SARA Hazards

Fire Hazard

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **Chemical Safety Assessment**

No Chemical Assessment has been carried out for this substance/mixture by the supplier

## **SECTION 16: Other information**

**Full text of hazard statements referenced in Section 2**

H226	Flammable liquid and vapor
H315	Causes skin irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Further information/disclaimer**

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