

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name : LeviCell Install Bead Mix 1

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture : Research use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LevitasBio
1455 Adams Drive
Menlo Park, CA 94025

1.4. Emergency telephone number

Emergency number : 408-663-4260

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

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.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------|---|---------|---|
| Water | (CAS-No.) 7732-18-5 (EC-No.) 231-791-2 | > 97 | Not classified |
| Polystyrene | (CAS-No.) 9003-53-6 (EC-No.) 500-008-9 | 1 - 2 | Not classified |
| Polyoxyethylene sorbitan monolaurate | (CAS-No.) 9005-64-5 (EC-No.) 500-018-3 | 0.1 - 1 | Not classified |

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| | | | |
|--------------|---|-------|---|
| Sodium azide | (CAS-No.) 26628-22-8 (EC-No.) 247-852-1 (EC Index-No.) 011-004-00-7 | < 0.1 | Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
|--------------|---|-------|---|

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell. |

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

| | |
|------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
|------------------|--|

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Use extinguishing media appropriate for surrounding fire. |
| Unsuitable extinguishing media | : None. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. |
|----------------------|--|

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

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6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
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, including any incompatibilities

- Storage conditions : Keep from freezing. Store at 2-8°C. Material may develop bacteria odor on long- term storage. No safety problems known.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Polystyrene (9003-53-6) | |
|--|---|
| Czech Republic - Occupational Exposure Limits | |
| Expoziční limity (PEL) (mg/m ³) | 5 mg/m ³ (dust) |
| Slovakia - Occupational Exposure Limits | |
| NPHV (priemerná) (mg/m ³) | 5 mg/m ³ (total solid aerosol) |

| Sodium azide (26628-22-8) | |
|--|--|
| EU - Occupational Exposure Limits | |
| IOELV TWA (mg/m ³) | 0.1 mg/m ³ |
| IOELV STEL (mg/m ³) | 0.3 mg/m ³ |
| Notes | Possibility of significant uptake through the skin |
| Austria - Occupational Exposure Limits | |
| MAK Daily average value (mg/m ³) | 0.1 mg/m ³ |
| MAK Short time value [mg/m ³] | 0.3 mg/m ³ |
| OEL chemical category (AT) | Skin notation |
| Belgium - Occupational Exposure Limits | |
| OEL chemical category (BE) | Skin, Skin notation |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| Croatia - Occupational Exposure Limits | |
| GVI (granična vrijednost izloženosti) (mg/m ³) | 0.1 mg/m ³ |

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| Sodium azide (26628-22-8) | |
|--|---|
| KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (HR) | Skin notation |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (CY) | Skin-potential for cutaneous absorption |
| Czech Republic - Occupational Exposure Limits | |
| Expoziční limity (PEL) (mg/m ³) | 0.1 mg/m ³ |
| OEL chemical category (CZ) | Potential for cutaneous absorption |
| Denmark - Occupational Exposure Limits | |
| Grænseværdi (8 timer) (mg/m ³) | 0.1 mg/m ³ |
| OEL chemical category (DK) | Potential for cutaneous absorption |
| Estonia - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (ET) | Sensitizer, Skin notation |
| Finland - Occupational Exposure Limits | |
| HTP-arvo (8h) (mg/m ³) | 0.1 mg/m ³ |
| HTP-arvo (15 min) | 0.3 mg/m ³ |
| OEL chemical category (FI) | Potential for cutaneous absorption |
| France - Occupational Exposure Limits | |
| VME [mg/m ³] | 0.1 mg/m ³ (restrictive limit) |
| VLE [mg/m ³] | 0.3 mg/m ³ (restrictive limit) |
| OEL chemical category (FR) | Risk of cutaneous absorption |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Occupational exposure limit value (mg/m ³) | 0.2 mg/m ³ |
| Gibraltar - Occupational Exposure Limits | |
| Eight hours mg/m ³ | 0.1 mg/m ³ |
| Short-term mg/m ³ | 0.3 mg/m ³ |
| OEL chemical category (GI) | Skin notation |
| Greece - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.3 mg/m ³ |
| OEL TWA (ppm) | 0.1 ppm |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL STEL (ppm) | 0.1 ppm |
| Hungary - Occupational Exposure Limits | |
| AK-érték | 0.1 mg/m ³ |
| CK-érték | 0.3 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL (8 hours ref) (mg/m ³) | 0.1 mg/m ³ |

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| Sodium azide (26628-22-8) | |
|---|--|
| OEL (15 min ref) (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (IE) | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (IT) | skin - potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL chemical category (LV) | skin - potential for cutaneous exposure |
| Lithuania - Occupational Exposure Limits | |
| IPRV (mg/m ³) | 0.1 mg/m ³ |
| TPRV (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (LT) | Skin notation |
| Luxembourg - Occupational Exposure Limits | |
| OEL chemical category (LU) | Possibility of significant uptake through the skin |
| Malta - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (MT) | Possibility of significant uptake through the skin |
| Netherlands - Occupational Exposure Limits | |
| Grenswaarde TGG 8H (mg/m ³) | 0.1 mg/m ³ |
| Grenswaarde TGG 15MIN (mg/m ³) | 0.3 mg/m ³ |
| MAC chemical category | Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (mg/m ³) | 0.1 mg/m ³ |
| NDSCh (mg/m ³) | 0.3 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ (indicative limit value) |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ (indicative limit value) |
| OEL - Ceilings (mg/m ³) | 0.29 mg/m ³ |
| OEL - Ceilings (ppm) | 0.11 ppm (vapor) |
| OEL chemical category (PT) | A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value |
| Romania - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (RO) | Skin notation |
| Slovakia - Occupational Exposure Limits | |
| NPHV (priemerná) (mg/m ³) | 0.1 mg/m ³ |
| NPHV (Hraničná) (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (SK) | Potential for cutaneous absorption |

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| Sodium azide (26628-22-8) | |
|--|---|
| Slovenia - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (SI) | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (mg/m ³) | 0.1 mg/m ³ (indicative limit value) |
| VLA-EC (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (ES) | skin - potential for cutaneous absorption |
| Sweden - Occupational Exposure Limits | |
| nivågränsvärde (NVG) (mg/m ³) | 0.1 mg/m ³ |
| kortidsvärde (KTV) (mg/m ³) | 0.3 mg/m ³ |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (mg/m ³) | 0.1 mg/m ³ |
| WEL STEL (mg/m ³) | 0.3 mg/m ³ |
| WEL chemical category | Potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdier (AN) (mg/m ³) | 0.1 mg/m ³ |
| Grenseverdier (Korttidsverdi) (mg/m ³) | 0.3 mg/m ³ (value from the regulation) |
| Switzerland - Occupational Exposure Limits | |
| MAK (mg/m ³) | 0.2 mg/m ³ (inhalable dust) |
| KZGW (mg/m ³) | 0.4 mg/m ³ (inhalable dust) |
| Turkey - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| OEL STEL (mg/m ³) | 0.3 mg/m ³ |
| OEL chemical category (TR) | Skin notation |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH Ceiling (mg/m ³) | 0.29 mg/m ³ |
| ACGIH Ceiling (ppm) | 0.11 ppm |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses.

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

None required under normal product handling conditions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid |
| Appearance | : Fluorescent dyed polystyrene microspheres suspended in water. |
| Odour | : Characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Suspended material is not flammable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal product handling conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

May irreversibly aggregate if frozen at 0°C / 32°F. Addition of chemicals may cause coagulation.

10.5. Incompatible materials

Not determined.

10.6. Hazardous decomposition products

If burned, dried resin produces a dense, black smoke and noxious decomposition products: gasses (carbon monoxide and hydrocarbons).

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

Water (7732-18-5)

| | |
|---------------|------------|
| LD50 oral rat | > 90 ml/kg |
|---------------|------------|

Sodium azide (26628-22-8)

| | |
|--------------------|----------|
| LD50 oral rat | 27 mg/kg |
| LD50 dermal rabbit | 20 mg/kg |

Polyoxyethylene sorbitan monolaurate (9005-64-5)

| | |
|---------------|-------------|
| LD50 oral rat | 37000 mg/kg |
|---------------|-------------|

| | |
|-----------------------------------|------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

Polystyrene (9003-53-6)

| | |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

| | |
|-----------------------|------------------|
| Reproductive toxicity | : Not classified |
|-----------------------|------------------|

| | |
|----------------------|------------------|
| STOT-single exposure | : Not classified |
|----------------------|------------------|

| | |
|------------------------|------------------|
| STOT-repeated exposure | : Not classified |
|------------------------|------------------|

| | |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

| | |
|---|---|
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
|---|---|

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 (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

Sodium azide (26628-22-8)

| | |
|-------------|---|
| LC50 fish 1 | 0.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| LC50 fish 2 | 0.7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus) |

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12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative potential

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| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | : Avoid release to the environment. |

SECTION 14: Transport information

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

14.1. UN number

| | |
|---------------|------------------|
| UN-No. (ADR) | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN) | : Not applicable |
| UN-No. (RID) | : Not applicable |

14.2. UN proper shipping name

| | |
|-----------------------------|------------------|
| Proper Shipping Name (ADR) | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN) | : Not applicable |
| Proper Shipping Name (RID) | : Not applicable |

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

ADN
Transport hazard class(es) (ADN) : Not applicable

RID
Transport hazard class(es) (RID) : Not applicable

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14.4. Packing group

| | |
|----------------------|------------------|
| Packing group (ADR) | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN) | : Not applicable |
| Packing group (RID) | : Not applicable |

14.5. Environmental hazards

| | |
|-------------------------------|--|
| Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |

14.6. Special precautions for user

Overland transport

Not applicable

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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Ontwikkeling

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Other information : None.

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 2 (Oral) | Acute toxicity (oral), Category 2 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| H300 | Fatal if swallowed. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

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.