



# Harlequin® Listeria Chromogenic Agar (Ottaviani & Agosti) (LCA)

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Issue date: 06-06-2025 Revision date: 12-15-2025 Supersedes: 10-13-2025 Version: 3.0

### SECTION 1 Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : Harlequin® Listeria Chromogenic Agar (Ottaviani & Agosti) (LCA)  
Type of product : Food Safety -- [Food Safety]  
Product code : NCM1004

#### 1.2. Other means of identification

Part Number(s) : NCM1004|7700004790|NCM1004A|700004791|NCM1004B|700004792|NCM1004C|700004793|  
NCM1004D|700004794|NCM1004S

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Laboratory chemicals, Scientific research and development  
Recommended use : Scientific research and development, Laboratory chemicals

#### 1.4. Supplier's details

##### Manufacturer

Neogen Corporation  
620 Leshner Place  
Lansing, Michigan 48912  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com) - <https://www.neogen.com/>

#### 1.5. Emergency phone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

### SECTION 2 Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS CA)

|   |      |                                      |
|---|------|--------------------------------------|
| Skin corrosion/irritation, Category 2         | H315 | Causes skin irritation.              |
| Serious eye damage/eye irritation, Category 2 | H319 | Causes serious eye irritation.       |
| Skin sensitization, Category 1B               | H317 | May cause an allergic skin reaction. |

Full text of H statements : see section 16

#### 2.2. GHS label elements, including precautionary statements

##### GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

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|                                   |   |
|-----------------------------------|---|
| Hazard statements (GHS CA)        | : H315 - Causes skin irritation<br>H317 - May cause an allergic skin reaction<br>H319 - Causes serious eye irritation   |
| Precautionary statements (GHS CA) | : P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.<br>P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P321 - Specific treatment (see supplemental first aid instruction on this label).<br>P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.<br>P337+P313 - If eye irritation persists: Get medical advice or attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations. |

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                    | Chemical name / Synonyms  | Product identifier  | %           | Classification (GHS CA)  |
|-------------------------|---|---------------------|-------------|--|
| Lithium chloride        | Lithium chloride<br>hydrochloric acid<br>lithium salt /<br>hydrochloric acid,<br>dilithium salt /<br>lithium chloride /<br>lithium chloride<br>(LiCl) / lithium<br>chloride,<br>anhydrous   | CAS-No.: 7447-41-8  | ≥ 10 – < 15 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |
| Sodium pyruvate         | 2-Oxopropanoic<br>acid sodium salt ;<br>Sodium pyruvate<br>2-oxo-propanoic<br>acid, sodium salt /<br>acetylformic acid,<br>sodium salt /<br>propanoic acid, 2-<br>oxo-, sodium salt /<br>pyruvic acid<br>sodium salt /<br>sodium pyruvate | CAS-No.: 113-24-6   | ≥ 1 – < 5   | Eye Irrit. 2, H319<br>Skin Sens. 1B, H317                              |
| Sodium glycerophosphate | -   | CAS-No.: 55073-41-1 | ≥ 1 – < 5   | Aquatic Chronic 4, H413  |

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Full text of hazard classes and H-statements : see section 16

### SECTION 4 First-aid measures

#### 4.1. Description of necessary first-aid measures

|   |  |
|---|--|
| First-aid measures after inhalation           | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact         | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.   |
| First-aid measures after eye contact          | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion            | : Call a poison center/doctor/physician if you feel unwell.  |
| First-aid measures general                    | : If you feel unwell, seek medical advice.   |
| Personal protection for first-aid responders. | : First-aiders should consider self-protection and use the recommended personal protective equipment (see section 8).  |

#### 4.2. Most important symptoms/effects, acute and delayed

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction.  |
| Symptoms/effects after eye contact  | : Eye irritation.   |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

|                                   |                          |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

### SECTION 5 Fire-fighting measures

#### 5.1. Suitable extinguishing media

|                                |                                    |
|--------------------------------|------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam.   |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

#### 5.2. Specific hazards arising from the chemical

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

#### 5.3. Special protective actions for fire-fighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

### SECTION 6 Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

|                           |   |
|---------------------------|---|
| General measures          | : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage. |
| Environmental precautions | : Avoid release to the environment.   |

#### 6.2. Methods and materials for containment and cleaning up

|                 |   |
|-----------------|---|
| For containment | : Using a clean shovel, put the material in a dry container and cover without compressing it. |
|-----------------|---|

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Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.  
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. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.  
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Storage temperature : 2 – 8 °C  
Packaging materials : Always store product in container of same material as original container.

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures, such as personal protective equipment (PPE)

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Hand protection:

Protective gloves

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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### Personal protective equipment symbol(s):



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                                  | : Solid             |
| Appearance                                      | : Powder.           |
| Color   | : Beige             |
| Odor  | : Characteristic    |
| Odor threshold                                  | : No data available |
| pH  | : 7 – 7.4           |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Relative evaporation rate (ether=1)             | : No data available |
| Melting point                                   | : No data available |
| Freezing point                                  | : Not applicable    |
| Boiling point                                   | : No data available |
| Flash point                                     | : Not applicable    |
| Auto-ignition temperature                       | : Not applicable    |
| Decomposition temperature                       | : No data available |
| Flammability (solid, gas)                       | : Non flammable     |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20°C                  | : No data available |
| Relative density                                | : No data available |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic                            | : Not applicable    |
| Explosion limits                                | : Not applicable    |
| Particle characteristics                        | : No data available |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | : The product is non-reactive under normal conditions of use, storage and transport.                   |
| Chemical stability                 | : Stable under normal conditions.  |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use.   |
| Conditions to avoid                | : None under recommended storage and handling conditions (see section 7).                              |
| Incompatible materials             | : No additional information available  |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hardening time:                    | : No additional information available  |

## SECTION 11 Toxicological information

### 11.1. Likely routes of exposure

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

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|---|--|
| Unknown acute toxicity (GHS CA)                                 | 5.05% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)<br>25.23% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>38.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |
| Lithium chloride (7447-41-8)                                    |  |
| LD50 oral rat   | 526 mg/kg (Rat, Male, Experimental value, Oral)  |
| LD50 oral   | 526 mg/kg  |
| LD50 dermal rat   | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))  |
| LD50 dermal rabbit  | 1488 mg/kg Source: Corporate Solution From Thomson Micromedex  |
| LC50 Inhalation - Rat   | > 5.57 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))   |
| ATE CA (oral)   | 526 mg/kg body weight  |
| ATE CA (Dermal)   | 1488 mg/kg body weight   |
| Sodium pyruvate (113-24-6)                                      |  |
| LD50 oral   | 3533 mg/kg body weight (Mouse, Experimental value, Oral)   |
| LD50 dermal rat   | > 3000 mg/kg body weight (Rat, Male, Experimental value, Intraperitoneal)  |
| ATE CA (oral)   | 3533 mg/kg body weight   |
| Skin corrosion/irritation                                       | : Causes skin irritation.<br>pH: 7 – 7.4   |
| Lithium chloride (7447-41-8)                                    |  |
| pH  | 7 (57 %, 20 °C, OECD 105: Water Solubility)  |
| Sodium pyruvate (113-24-6)                                      |  |
| pH  | 7 (10 %)   |
| Serious eye damage/irritation                                   | : Causes serious eye irritation.<br>pH: 7 – 7.4  |
| Lithium chloride (7447-41-8)                                    |  |
| pH  | 7 (57 %, 20 °C, OECD 105: Water Solubility)  |
| Sodium pyruvate (113-24-6)                                      |  |
| pH  | 7 (10 %)   |
| Respiratory or skin sensitization                               | : May cause an allergic skin reaction.   |
| Germ cell mutagenicity  | : Not classified   |
| Carcinogenicity   | : Not classified   |
| Reproductive toxicity   | : Not classified   |
| STOT-single exposure  | : Not classified   |
| STOT-repeated exposure  | : Not classified   |
| Lithium chloride (7447-41-8)                                    |  |
| NOAEL (oral,rat,90 days)  | 84.8 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)   |
| Aspiration hazard   | : Not classified   |
| Harlequin® Listeria Chromogenic Agar (Ottaviani & Agosti) (LCA) |  |
| Viscosity, kinematic  | Not applicable   |

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| <b>Lithium chloride (7447-41-8)</b> |   |
|-------------------------------------|---|
| Viscosity, kinematic                | Not applicable (solid)  |
| <b>Sodium pyruvate (113-24-6)</b>   |   |
| Viscosity, kinematic                | Not applicable (solid)  |
| Symptoms/effects after inhalation   | : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction.  |
| Symptoms/effects after eye contact  | : Eye irritation.   |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

## SECTION 12 Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| Ecology - general   | : The product is not considered harmful to aquatic organisms or 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.  |

| <b>Lithium chloride (7447-41-8)</b> |   |
|-------------------------------------|---|
| LC50 - Fish [1]                     | 158 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Oncorhynchus mykiss</i> , Static system, Fresh water, Experimental value, Lethal)                         |
| EC50 - Crustacea [1]                | 249 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Locomotor effect)  |
| ErC50 algae                         | > 400 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Desmodesmus subspicatus</i> , Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 72h - Algae [1]                | > 400 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )  |
| EC50 72h - Algae [2]                | 112 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )  |
| NOEC chronic fish                   | 17.35 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i> ) Duration: '34 d'   |
| NOEC (chronic)                      | 1.7 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'  |
| NOEC chronic algae                  | 25 mg/l   |
| LOEC (chronic)                      | 2.53 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'   |

| <b>Sodium pyruvate (113-24-6)</b> |   |
|-----------------------------------|---|
| LC50 - Fish [1]                   | > 100 mg/l (96 h, Pisces, QSAR, Nominal concentration)  |
| EC50 - Crustacea [1]              | > 100 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Nominal concentration) |
| ErC50 algae                       | > 3 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Pseudokirchneriella subcapitata</i> , Static system, Fresh water, Experimental value, GLP)                   |
| EC50 72h - Algae [1]              | 2.78 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )        |
| EC50 96h - Algae [1]              | 94800000 mg/l Source: ECOSAR  |

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| Sodium pyruvate (113-24-6) |  |
|----------------------------|--|
| NOEC (chronic)             | 3.95 mg/l Test organisms (species): Duration: '28 d' |

### 12.2. Persistence and degradability

| Harlequin® Listeria Chromogenic Agar (Ottaviani & Agosti) (LCA) |                        |
|---|------------------------|
| Persistence and degradability                                   | Not rapidly degradable |

| Lithium chloride (7447-41-8)  |   |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in soil: not applicable, Biodegradability: not applicable. |
| Chemical oxygen demand (COD)  | Not applicable (inorganic)  |
| ThOD                          | Not applicable (inorganic)  |

| Sodium pyruvate (113-24-6)    |                                 |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| Sodium glycerophosphate (55073-41-1) |                        |
|--------------------------------------|------------------------|
| Persistence and degradability        | Not rapidly degradable |

### 12.3. Bioaccumulative potential

| Lithium chloride (7447-41-8)                    |  |
|---|--|
| Bioaccumulative potential                       | Not bioaccumulative.                   |
| Partition coefficient n-octanol/water (Log Pow) | -0.46 (Estimated value, KOWWIN, 20 °C) |

| Sodium pyruvate (113-24-6)                      |   |
|---|---|
| Bioaccumulative potential                       | Not bioaccumulative.  |
| Partition coefficient n-octanol/water (Log Pow) | -3.8 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C) |

### 12.4. Mobility in soil

| Lithium chloride (7447-41-8) |   |
|------------------------------|---|
| Surface tension              | No data available (test not performed)  |
| Ecology - soil               | Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. |

| Sodium pyruvate (113-24-6) |   |
|----------------------------|---|
| Surface tension            | No data available in the literature                   |
| Ecology - soil             | No (test)data on mobility of the substance available. |

### 12.5. Other adverse effects

Ozone : Not classified  
Fluorinated greenhouse gases : No

## SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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|  |   |
|--|---|
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.  |
| Product/Packaging disposal recommendations | : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.   |
| Additional information                     | : Do not re-use empty containers.   |
| Ecological waste information               | : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself. |

### SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

| TDG                                       | DOT           | IMDG          | IATA          |
|---|---------------|---------------|---------------|
| <b>14.1. UN Number</b>                    |               |               |               |
| Not regulated for transport               |               |               |               |
| <b>14.2. UN Proper Shipping Name</b>      |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b>   |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group, if applicable</b> |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>        |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| No supplementary information available    |               |               |               |

### 14.6. Special precautions for user

#### TDG

Not regulated

#### DOT

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78<sup>9</sup> and the IBC Code<sup>10</sup>

Not applicable

### SECTION 15 Regulatory information

#### Lithium chloride (7447-41-8)

#### Listed on the Canadian DSL (Domestic Substances List)

|                         |   |
|-------------------------|---|
| Canada DSL & NDSL Flags | Significant New Activity (SNAc) provisions of the Act apply |
|-------------------------|---|

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### Sodium pyruvate (113-24-6)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

### Sodium glycerophosphate (55073-41-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### Lithium chloride (7447-41-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Sodium pyruvate (113-24-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

### Sodium glycerophosphate (55073-41-1)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

## SECTION 16 Other Information

Issue date : 06-06-2025

Revision date : 12-15-2025

Supersedes : 10-13-2025

### Full text of hazard classes and H-statements:

|      |  |
|------|--|
| H302 | Harmful if swallowed                                   |
| H315 | Causes skin irritation                                 |
| H317 | May cause an allergic skin reaction                    |
| H319 | Causes serious eye irritation                          |
| H413 | May cause long lasting harmful effects to aquatic life |

Safety Data Sheet (SDS), Canada

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.