

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**Product Identifier**

<b>Product name</b>	Jeffries Organic Potting Soil Mixes
<b>Synonyms</b>	Jeffries Veggie & Garden Soil, Jeffries Organic Potting Soil

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

<b>Relevant identified uses</b>	Growing media and for other horticultural purposes
<b>Uses advised against</b>	Not for human or animal consumption

**Details of the supplier of the safety data sheet**

<b>Registered company name</b>	Jeffries Group
<b>Address</b>	412 Hanson Road North Wingfield South Australia 5013 Australia
<b>Telephone</b>	+61 8 8368 3588
<b>Fax</b>	+61 8 8368 3588
<b>Website</b>	www.jeffries.com.au
<b>Email</b>	info@jeffries.com.au

**Emergency telephone number**

<b>Association / Organisation Not Available</b>	Chemwatch
<b>Emergency telephone numbers</b>	Australia: +61 1800 951 288 (Toll Free – 24x7) New Zealand: +64 800 700 112 (Toll Free – 24x7)
<b>Other emergency telephone numbers</b>	+61 8 8368 3555 (Business Hours)

**SECTION 2 HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**This product is *not classified as hazardous* according to GHS Revision 7 and the Australian WHS Regulations.**

<b>Poisons Schedule</b>	Not Applicable
<b>Classification [1]</b>	Not Applicable

**Label elements**

<b>Hazard pictogram(s)</b>	None required
<b>SIGNAL WORD</b>	<b>NONE</b>

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<b>Hazard statement(s)</b>	None. Product does not meet criteria for hazardous classification
<b>Precautionary statement(s) Prevention</b>	Avoid breathing dust. Wash hands after handling. Keep out of reach of children.
<b>Precautionary statement(s) Response</b>	Not required
<b>Precautionary statement(s) Storage</b>	Not required
<b>Precautionary statement(s) Disposal</b>	Not required
<b>Other hazards</b>	Dust may cause eye and respiratory irritation. Product may contain naturally occurring soil microorganisms including <i>Legionella</i> , fungi, and bacteria. Organic material may self-heat when stored in wet, compacted piles.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
Not Available	100	A blend of composted organic matter, soil/sand components, and nutrient additives. Contains no hazardous ingredients above GHS cut-off concentrations.

## SECTION 4 FIRST AID MEASURES

### Description of first aid measures

<b>Eye Contact</b>	If this product comes in contact with eyes: <ul style="list-style-type: none"><li>- Wash out immediately with water.</li><li>- Dust may cause mechanical irritation.</li><li>- If irritation continues, seek medical attention.</li><li>- Remove contact lenses if easy to do.</li></ul>
<b>Skin Contact</b>	If skin or hair contact occurs: <ul style="list-style-type: none"><li>- Minor abrasions possible from coarse organic particles.</li><li>- Flush skin and hair with running water (and soap if available).</li><li>- Seek medical attention in event of irritation.</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><li>- If dust is inhaled, move to fresh air and monitor for respiratory irritation.</li><li>- Seek medical advice if coughing, breathing difficulty, or fever develops.</li></ul>

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	<ul style="list-style-type: none"> <li>- Medical attention should be sought if flu-like symptoms arise within 2–10 days due to potential exposure to soil microorganisms such as <i>Legionella</i>.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>- Rinse mouth</li> <li>- Seek medical advice if unwell</li> </ul>

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

Irritation to eyes, nose, and throat; coughing; redness; mild allergic responses; fever or respiratory illness due to microbial exposure in susceptible individuals.

## **SECTION 5 FIREFIGHTING MEASURES**

### Extinguishing media

- Water spray, foam, dry chemical
- Use extinguishing media suitable for surrounding area.

### Special hazards arising from the substrate or mixture

<b>Fire Incompatibility</b>	None known.
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### Advice for firefighters

<b>Fire Fighting</b>	<ul style="list-style-type: none"> <li>- Alert Fire Brigade and tell them location and nature of hazard.</li> <li>- Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>- Prevent, by any means available, spillage from entering drains or water courses.</li> <li>- Use fire fighting procedures suitable for surrounding area.</li> <li>- <b>DO NOT</b> approach containers suspected to be hot.</li> <li>- Cool fire exposed containers with water spray from a protected location.</li> <li>- If safe to do so, remove containers from path of fire.</li> <li>- Equipment should be thoroughly decontaminated after use.</li> </ul>
<b>Fire / Explosion Hazard</b>	<ul style="list-style-type: none"> <li>- Combustible organic material. May smoulder in large or compacted piles.</li> <li>- Decomposition may produce carbon monoxide, carbon dioxide, and particulate smoke.</li> </ul>
<b>HAZCHEM</b>	Not Applicable

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

Avoid dust. Wear P2 respirator, gloves, and eye protection if dusty.

### Environmental precautions

Prevent material entering stormwater systems. Reuse soil if uncontaminated.

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## Methods and material for containment and cleaning up

<b>Minor Spills</b>	<ul style="list-style-type: none"> <li>- Clean up all spills immediately.</li> <li>- Avoid contact with skin and eyes.</li> <li>- Wear impervious gloves and safety glasses.</li> <li>- Use dry clean up procedures and avoid generating dust.</li> <li>- Collect mechanically using shovel or loader. Use light water mist to suppress dust if needed.</li> <li>- Do <b>NOT</b> use air hoses for cleaning.</li> <li>- Place spilled material in clean, dry, sealable, labelled container.</li> </ul>
<b>Major Spills</b>	<ul style="list-style-type: none"> <li>- Clear area of personnel and move upwind.</li> <li>- Alert Fire Brigade and tell them location and nature of hazard.</li> <li>- Control personal contact with the substance, by using protective equipment and dust respirator.</li> <li>- Prevent spillage from entering drains, sewers or water courses.</li> <li>- Avoid generating dust.</li> <li>- Sweep, shovel up. Recover product wherever possible.</li> <li>- Put residues in labelled plastic bags or other containers for disposal.</li> <li>- If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

<b>Safe handling</b>	<ul style="list-style-type: none"> <li>- Limit all unnecessary personal contact.</li> <li>- Wear protective clothing when risk of exposure occurs.</li> <li>- Use in a well-ventilated area.</li> <li>- Avoid generating dust. Use good hygiene practices.</li> <li>- When handling, <b>DO NOT eat, drink or smoke.</b></li> <li>- Keep containers securely sealed when not in use.</li> <li>- Avoid physical damage to containers.</li> <li>- Always wash hands with soap and water after handling.</li> <li>- Work clothes should be laundered separately.</li> <li>- Use good occupational work practice.</li> <li>- Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
<b>Other information</b>	<ul style="list-style-type: none"> <li>- Store in original containers.</li> <li>- Keep containers securely sealed.</li> <li>- Store in a cool, dry area protected from environmental extremes.</li> <li>- Store away from incompatible materials and foodstuff containers.</li> <li>- Protect containers against physical damage and check regularly for leaks.</li> </ul>

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	<ul style="list-style-type: none"> <li>- Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul> <p>For major quantities:</p> <ul style="list-style-type: none"> <li>- Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>- Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>
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### Conditions for safe storage, including any incompatibilities

<b>Suitable container</b>	<ul style="list-style-type: none"> <li>- Store in well-ventilated areas. Avoid deep compacted piles which may self-heat.</li> <li>- Plastic pail. Poly-lined drum.</li> <li>- Packing as recommended by manufacturer.</li> <li>- Check all containers are clearly labelled and free from leaks.</li> </ul>
<b>Storage incompatibility</b>	<ul style="list-style-type: none"> <li>- Avoid contamination of water, foodstuffs, feed or seed.</li> <li>- Keep away from ignition sources. Keep product dry where possible.</li> </ul>

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

Not Available

### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Jeffries Organic Potting Soil Mixes	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Jeffries Organic Potting Soil Mixes	Not Available	Not Available

### Exposure controls

<b>Appropriate engineering controls</b>	<p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <ul style="list-style-type: none"> <li>- Process controls which involve changing the way a job activity or process is done to reduce the risk.</li> </ul>
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	<ul style="list-style-type: none"> <li>- Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</li> <li>- Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</li> <li>- Employers may need to use multiple types of controls to prevent employee overexposure.</li> </ul> <p>Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.</p>
<p><b>Personal protection</b></p>	
<p><b>Eye and face protection</b></p>	<ul style="list-style-type: none"> <li>- Safety glasses with side shields</li> <li>- Chemical goggles.</li> <li>- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>
<p><b>Skin protection</b></p>	<p>See Hand protection below</p>
<p><b>Hands/feet protection</b></p>	<p>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</p> <p>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</p> <ul style="list-style-type: none"> <li>- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> </ul>

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	<ul style="list-style-type: none"> <li>- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>- Contaminated gloves should be replaced.</li> </ul> <p>Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</p> <p>Gloves should be examined for wear and/ or degradation constantly.</p>
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	<p>No special equipment needed when handling small quantities.</p> <p><b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>- Overalls.</li> <li>- Barrier cream.</li> <li>- Eyewash unit.</li> </ul>

### Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Dark brown/black organic potting mix		
<b>Physical state</b>	Divided Solid	<b>Relative density (Water =1)</b>	Not Available
<b>Bulk Density</b>	Typically 500-750 kg/m <sup>3</sup>	<b>pH</b>	Typically 6-8
<b>Odour</b>	Earthy	<b>n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Available
<b>pH (as supplied)</b>	Not Available	<b>Decomposition temperature</b>	Not Available

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<b>Melting point / freezing point (°C)</b>	Not Applicable	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	Not Applicable	<b>Molecular weight (g/mol)</b>	Not Applicable
<b>Flash point (°C)</b>	Not Available	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Applicable	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Combustible organic solid	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Available	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Applicable
<b>Lower Explosive Limit (%)</b>	Not Available	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water</b>	Partly miscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	Not Available	<b>VOC g/L</b>	Not Available

### SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	Product is considered stable and hazardous polymerisation will not occur.
<b>Possibility of hazardous reactions</b>	<ul style="list-style-type: none"> <li>- Potential to self-heat in bulk storage</li> <li>- See section 7 for more details</li> </ul>
<b>Conditions to avoid</b>	<ul style="list-style-type: none"> <li>- Avoid wet, compacted storage</li> <li>- See section 7</li> </ul>
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	May produce CO, CO <sub>2</sub> , and smoke particles under smouldering combustion.

### SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Likely routes of exposure – eye contact, skin contact, inhalation of dust.

<b>Inhaled</b>	<p>The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.</p> <p>Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.</p>
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	If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.
<b>Ingestion</b>	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
<b>Skin Contact</b>	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
<b>Eye</b>	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.
<b>Chronic</b>	<p>Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless, exposure by all routes should be minimised as a matter of course.</p> <p>Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung.</p>

<b>Jeffries Organic Potting Soil Mixes</b>	<b>TOXICITY</b>	<b>IRRITATION</b>
	Not Available	Not Available
<b>Legend:</b>	<p>1. Value obtained from Europe ECHA Registered Substances - Acute toxicity</p> <p>2. * Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances</p>	

<b>Acute Toxicity</b>	<i>Data either not available or does not fill the criteria for classification</i>	<b>Carcinogenicity</b>	<i>Data either not available or does not fill the criteria for classification</i>
<b>Skin Irritation/Corrosion</b>	<i>Data either not available or does not fill the criteria for classification</i>	<b>Reproductivity</b>	<i>Data either not available or does not fill the criteria for classification</i>
<b>Serious Eye Damage/Irritation</b>	<i>Data either not available or does not fill the criteria for classification</i>	<b>STOT - Single Exposure</b>	<i>Data either not available or does not fill the criteria for classification</i>
<b>Respiratory or Skin sensitisation</b>	<i>Data either not available or does not fill the criteria for classification</i>	<b>STOT - Repeated Exposure</b>	<i>Data either not available or does not fill the criteria for classification</i>

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<b>Mutagenicity</b>	<i>Data either not available or does not fill the criteria for classification</i>	<b>Aspiration Hazard</b>	<i>Data either not available or does not fill the criteria for classification</i>
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### SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity

Jeffries Organic Potting Soil Mixes	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
<b>Legend:</b>	<i>Extracted from</i> <ul style="list-style-type: none"> <li>- 1. IUCLID Toxicity Data</li> <li>- 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity</li> <li>- 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated)</li> <li>- 4. US EPA, Ecotox database - Aquatic Toxicity Data</li> <li>- 5. ECETOC Aquatic Hazard Assessment Data</li> <li>- 6. NITE (Japan) - Bioconcentration Data</li> <li>- 7. METI (Japan) - Bioconcentration Data</li> <li>- 8. Vendor Data</li> </ul>				

**Product is biodegradable. Not expected to be harmful to aquatic life, but large quantities may cause oxygen depletion during decomposition. Avoid release into waterways.**

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

#### Bio-accumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

#### Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Product / Packaging disposal</b>	- <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.
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	<ul style="list-style-type: none"><li>- It may be necessary to collect all wash water for treatment before disposal.</li><li>- Reuse or recycle where possible as soil amendment.</li><li>- Dispose of excess material at approved green waste or composting facilities.</li><li>- Do not allow large volumes to enter stormwater drains.</li><li>- Contaminated pellets should be disposed of in accordance with local council guidelines.</li></ul>
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### **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

<b>Marine Pollutant</b>	NO
<b>HAZCHEM</b>	Not Applicable

Not classified as dangerous goods by ADG, IMDG or IATA.

### **SECTION 15 REGULATORY INFORMATION**

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

Not Applicable

### **SECTION 16 OTHER INFORMATION**

#### SDS Version Summary

Issue #	Issue Date	Sections Updated
1	01/08/2011	First version
2	01/08/2016	Second version
3	04/12/2020	GHS compliant version
4	08/12/2025	Compliant to GHS7 and Australian WHS Code of Practice 2020

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC – TWA:	Permissible Concentration-Time Weighted Average
PC – STEL:	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Governmental Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit.
IDLH:	Immediately Dangerous to Life or Health Concentrations

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OSF:	Odour Safety Factor
NOAEL:	No Observed Adverse Effect Level
LOAEL:	Lowest Observed Adverse Effect Level
TLV:	Threshold Limit Value
LOD:	Limit of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEI:	Biological Exposure Index

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