

## Offer Sheet

|              |                                             |
|--------------|---------------------------------------------|
| Product      | Melamine Cyanurate (MCA),<br>CAS 37640-57-6 |
| Quantity     | 10 pallets                                  |
| Net weight   | ~ 15,430 lbs.                               |
| Availability | One time                                    |
| Location     | Plymouth, IN                                |
| Manufactured |                                             |
| Date         | 10/22/26                                    |
| COA & SDS    | See below                                   |

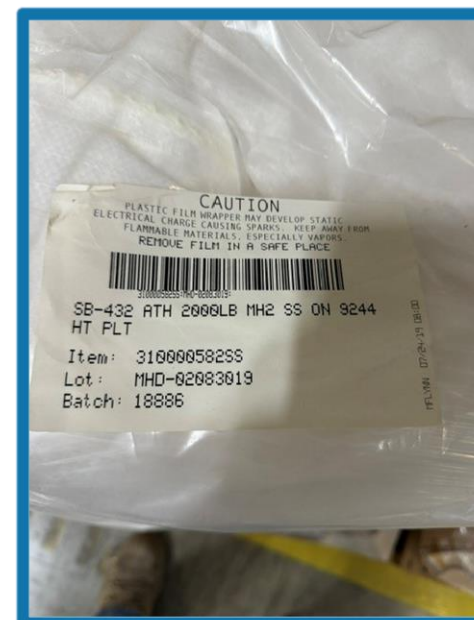


Hangzhou JLS Flame Retardants Chemical Co., Ltd

Analysis report

|                                        |                    |              |
|----------------------------------------|--------------------|--------------|
| Product name                           | Melamine Cyanurate |              |
| Batch No.                              | 2019011207         |              |
| Productive date                        | 2019-01-12         |              |
| Report date                            | 2019-01-14         |              |
| Quantities                             | 2800Kg             |              |
| Specification                          | Index              | Results      |
| Appearance                             | White powder       | White powder |
| Melamine Cyanurate, % , m/m , ≥        | 99.5               | 99.9         |
| Excess Melamine, % , m/m , ≤           | 0.30               | 0.03         |
| Excess Cyanuric acid, % , m/m , ≤      | 0.20               | 0.04         |
| Water content, % , m/m , ≤             | 0.20               | 0.14         |
| Particle size                          |                    |              |
| D <sub>50</sub> , μm                   | approx.4.0         | Pass test    |
| D <sub>90</sub> , μm , ≤               | 25.0               | Pass test    |
| Density at 25 °C , g / cm <sup>3</sup> | 1.65-1.85          | 1.65         |

Analyst: 陈惠娟  
Check: 陈卫军  
Auditing: 陈瑞英



If interested, please call or text:

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[Solvent-Systems.com](https://www.solvent-systems.com)

Melamine Cyanurate (MCA), CAS 37640-57-6, is a specialty, halogen-free flame retardant primarily used in the plastics and polymer industries. Its largest commercial application is in nylon (polyamide) compounds, particularly electrical and electronic components requiring flame resistance.

1. Primary Commercial Uses

| Industry                           | Application                                                   |
|------------------------------------|---------------------------------------------------------------|
| Nylon 6 and Nylon 66 manufacturing | Halogen-free flame retardant for polyamide compounds          |
| Electrical and electronics         | Connectors, switches, housings, circuit protection components |
| Engineering plastics               | Flame-retardant thermoplastic compounds                       |
| Wire and cable                     | Flame-retardant polymer insulation and jacketing formulations |
| Plastic compounding                | Additive for custom flame-retardant masterbatches             |
| Adhesives and sealants             | Specialty flame-retardant formulations                        |
| Coatings                           | Specialty flame-retardant coatings                            |
| Textile applications               | Selected flame-retardant polymer or coating formulations      |

MCA is particularly attractive for applications requiring halogen-free flame retardancy and relatively low smoke generation.

2. How Melamine Cyanurate Works

MCA is incorporated into polymers during compounding. When exposed to elevated temperatures, it absorbs heat and releases nonflammable gases that help reduce combustion. It is particularly effective in unfilled and mineral-filled nylon formulations. BASF reports that appropriate formulations can achieve a UL 94 V-0 flame-retardancy rating; performance in glass-fiber-filled formulations is more limited.



## Safety Data Sheet

According to OSHA Hazcom 2012

Printing date: 01.01.2017

Version number: 2017.1

Revision: 12.30.2016

Trade name: JLS-MC

### Section 1: Identification

1.1 Product identifier used on the label JLS-MC

1.2 Other means of identification

Name: Melamine Cyanurate

Trade name: JLS-MC, JLS-MC15, JLS-MC15J,  
JLS-MC25, JLS-MC25J, JLS-MC40J, JLS-MC50,  
JLS-MC50J, JLS-MC810, JLS-MCK

1.3 Recommended use of the chemical and restriction on use:

Recommended use:

Flame retardant.

Restriction on use: None.

1.4 Details of the supplier of the safety data sheet and sales:

Supplier: China: HANGZHOU JLS FLAME RETARDANTS CHEMICAL CO., LTD.  
USA: JLS Chemical Inc.

Address: 1970 W. Holt Ave., Pomona, CA 91768

Contact person(SDS): Julie Lin

E-mail(SDS): julie@jlschemicalusa.com

Telephone(SDS): (909) 629 4188

Telephone(Sales): (909) 629 4188

Fax(Sales): (909) 629 4198

1.5 Emergency telephone No.:

(909) 629 4188

Office hours: (Monday –Friday: 8:30 - 17 h and Saturday: 8:30 - 12h)

### Section 2: Hazard(s) Identification

2.1 Classification of the chemical in accordance with paragraph (d) of §1910.1200

Specific target organ toxicity (repeated exposure) hazard category 2.

May cause damage to organs through prolonged or repeated exposure.

2.2 label elements

Signal word: Warning

Hazard statement(s): May cause damage to organs through prolonged or repeated exposure.

Symbol(s)



Precautionary statement(s): Do not breathe dust.

Get medical advice/attention if you feel unwell.

Disposal content/container in accordance with  
local/regional/national/international regulations.

2.3 Other hazards:

According to the present state of knowledge provided this product is  
handled correctly, there is no danger to humans or the environment.



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### 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

### 6.3 Methods and material for containment and cleaning up:

Collect spilled material in sealed containers.

Collect mechanically.

Forward for disposal.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### 6.5 Other information:

Prevent dispersion of dust.

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## Section 7: Handling and storage

### 7.1 Precaution for safe handling:

Do not eat, drink and smoke in work areas.

Wash hands after use.

Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

#### Information about storage in one common storage facility:

Provide sufficient ventilation at store- and workrooms. Keep only in unopened original container.

#### Further information about storage conditions:

Keep containers tightly closed.

Storage: cool and dry.

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## Section 8: Exposure control/personal protection

### 8.1 OSHA permissible exposure limit (PEL)

Not data available.

### American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)

Not data available.

#### DNELs

Oral 0.015 mg/kg bw/d (consumer-long term)

Dermal 8.3 mg/kg bw/d (consumer-long term)

16.6 mg/kg bw/d (long-term-worker)

Inhalative 0.053 mg/kg bw/d (consumer-long term)

0.21 mg/kg bw/d (long-term-worker)

### 8.2 Appropriate engineering controls

Provide sufficient aeration, especially in closed spaces. Provide adequate ventilation and dust extraction at the machine to minimize dust exposure.

### 8.3 Individual protection measures

#### General protective and hygienic measures



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Under normal conditions, hazardous reactions will not occur.

### 10.4 Conditions to avoid:

Avoid temperatures above 350°C.

### 10.5 Incompatible materials:

None.

### 10.6 Hazardous decomposition products:

At temperatures above 350°C, the substance decomposes into carbon monoxide, carbon dioxide, ammonia, nitrogen oxides, and small amounts of prussic acid and isocyanates.

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## Section 11: Toxicological information

### 11.1 Information on the likely routes of exposure:

The likely routes of exposure are inhalation, skin and eye contact.

### 11.2 Symptoms related to the physical, chemical and toxicological characteristics

|                                                                                                |                                                                            |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Serious eye damage/irritation:                                                                 | No irritant effect.<br>Mechanical effects (dust) may cause eye irritation. |
| Respiratory or skin sensitization:                                                             | non-sensitizing                                                            |
| Acute toxicity:                                                                                | LD <sub>50</sub> (Oral, rat) > 2000 mg/kg                                  |
| Aspiration hazard:                                                                             | May result in increasing concentration of urea and nitrogen in blood.      |
| Germ cell mutagenicity:                                                                        | None germ cell mutagenicity                                                |
| Carcinogenicity:                                                                               | No carcinogenicity                                                         |
| Reproduction toxicity:                                                                         | No Reproductive toxicity                                                   |
| 11.3 Delayed and immediate effects and also chronic effects from short- and long-term exposure |                                                                            |
| STOT – single exposure :                                                                       | No STOT-single exposure                                                    |
| STOT- repeated exposure :                                                                      | May cause damage to organs repeated exposure                               |
| 11.4 Numerical measures of toxicity                                                            |                                                                            |
| Acute toxicity:                                                                                | LD <sub>50</sub> (Oral, rat) > 2000 mg/kg                                  |

11.5 Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA

No

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## Section 12: Ecological information

### 12.1 Ecotoxicity

|                 |                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| Fish toxicity : | Fish: 96h LC <sub>50</sub> > 100mg/l<br>Crustacea: 48h LC <sub>50</sub> > 1000mg/l (Daphnia magna (Water flea)) |
|-----------------|-----------------------------------------------------------------------------------------------------------------|

### 12.2. Persistence and degradability

|                    |                                  |
|--------------------|----------------------------------|
| Biodegradability : | No indication of biodegradation. |
|--------------------|----------------------------------|

### 12.3. Bioaccumulative potential

|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| Bioaccumulation: | Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected. |
|------------------|---------------------------------------------------------------------------------------------------|



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Trade name: JLS-MC

Philippines

Listed on the PICCS.

Australia:

Listed on the AICS.

New Zealand

Listed on the NZIoC.

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### Section 16: Other information

The date of preparation of the SDS is Dec 10, 2015.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The product is solely intended for industrial processing/application.

- **Department issuing data specification sheet:** Quality & Safety Management
- **Contact:** Julie Lin
- **New edition** Changes are marked by the updated year and number.
- **Comment:**

n.a. = not applicable

n.v. = not available

- **Abbreviations and acronyms:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent



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### 12.4. Mobility in soil

Transport and distribution

Not available

between environmental compartments :

### 12.5. Other adverse effects

Water hazard class 1: slightly hazardous for water.

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## Section 13: Disposal considerations

### 13.1 Disposal methods:

Product:

Disposal must be made according to official regulations.

Uncleaned packagings:

Packages that cannot be cleaned are to be disposed of in the same manner as the product.

**Recommendation:** Disposal must be made according to official regulations.

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## Section 14: Transport information

### 14.1 UN Number

This product is not listed in the UN Model regulations.

### 14.2 UN proper shipping name

This product is not listed in the UN Model regulations.

### 14.3 Transport hazard class(es)

Not regulated as dangerous goods.

### 14.4 Packing group

Not regulated as dangerous goods.

### 14.5 Environmental hazards

Not marine pollutant.

### 14.6 Special precautions for user

No information available.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

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## Section 15: Regulation information

### 15.1 Safety, health and environment regulation/legislation specific for substance or mixture

Relevant information regarding authorization:

Not applicable.

Relevant information regarding restriction:

Not applicable.

Other National regulations:

|        |                                |
|--------|--------------------------------|
| China: | Listed on the IECSC Inventory. |
| USA:   | Listed on the TSCA Inventory.  |
| EU:    | Listed on the EINECS.          |
| Japan  | Listed on the ENCS.            |
| Canada | Listed on the DSL.             |
| Korea: | Listed on the KECL.            |



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**Trade name:** JLS-MC

Do not eat, drink or smoke while working. Wash thoroughly after handling.

**Eye/face protection:**

Tightly sealed safety glasses.

**Skin protection:**

Wear protective work clothing and chemical resistant protective gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Respiratory protection:**

Respiratory protection in case of dust/aerosol emission. Respiratory protection in case of insufficient ventilation.

Particle filter with high retention capacity for solid particles or aerosols (e.g. EN 143 or 149, type P3 or FFP3).

**Thermal hazards:**

No thermal hazards.

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### Section 9: Physical and chemical properties

|                                                     |                                         |
|-----------------------------------------------------|-----------------------------------------|
| <b>Appearance (physical state, color, etc.):</b>    | White powder.                           |
| <b>Odor:</b>                                        | Odorless                                |
| <b>Odor threshold</b>                               | Not applicable.                         |
| <b>pH:</b>                                          | 5.0-7.0(25°C, 1% suspension)            |
| <b>Melting point/freezing point:</b>                | Not applicable                          |
| <b>Initial boiling point and boiling range:</b>     | Not applicable.                         |
| <b>Flash point:</b>                                 | Not applicable.                         |
| <b>Evaporation rate:</b>                            | Not applicable.                         |
| <b>Flammability (solid, gas):</b>                   | Product is not flammable.               |
| <b>Upper/lower flammability or explosion limit:</b> | Not applicable.                         |
| <b>Vapour pressure</b>                              | Not available.                          |
| <b>Vapour Density:</b>                              | Not available.                          |
| <b>Relative density:</b>                            | Not available.                          |
| <b>Solubility:</b>                                  | 2.7 mg/l( in water at 20°C)             |
| <b>Partition coefficient: n-octanol/water</b>       | -2.28 log POW at 25°C                   |
| <b>Auto-ignition temperature:</b>                   | Not applicable.                         |
| <b>Decomposition point :</b>                        | >350°C                                  |
| <b>Viscosity:</b>                                   | Not applicable                          |
| <b>Density:</b>                                     | Approx. 1.65g/cm <sup>3</sup> (at 25°C) |

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### Section 10: Stability and reactivity

#### 10.1 Reactivity:

Stable under recommended storage and handling conditions (see section 7, handling and storage).

#### 10.2 Chemical stability:

Under normal conditions, the product is stable and no hazardous reaction when handled and stored. Hazardous reactions are not known.

#### 10.3 Possibility of hazardous reactions:



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### Section 3: Composition/information on ingredients

Chemical name: 1,3,5-triazine-2,4,6(1H,3H,5H)-trione, compound with 1,3,5-triazine-2,4,6-triamine (1:1).

Common name and synonyms: Melamine Cyanurate.

CAS NO.: 37640-57-6

EINECS NO.: 253-575-7

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### Section 4 : First-aid measures

#### 4.1 Description of necessary first aid measures:

Remove breathing apparatus only after soiled clothing has been completely removed.

##### 4.1.1 After inhalation:

Supply fresh air; consult doctor in case of symptoms.

##### 4.1.2 After skin contact:

Wash with water and soap.

Remove contaminated clothing and shoes. Wash before re-use.

##### 4.1.3 After eyes contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

##### 4.1.4 After ingestion:

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

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

No symptoms known currently.

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

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

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### Section 5: Fire-Fighting measures

#### 5.1 Extinguishing media:

Suitable extinguishing media: dry powder, foam, water spray, carbon dioxide.

Unsuitable extinguishing media: water jet.

#### 5.2 Special hazards arising from the chemical

At temperatures above 350°C, the substance decomposes into carbon monoxide, carbon dioxide, ammonia, nitrogen oxides, and small amounts of prussic acid and isocyanates.

#### 5.3 Special protective equipment and precautions for fire-fighters.:

Do not stay in dangerous zone without self-contained breathing apparatus.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Prevent fire-fighting water from entering surface water or groundwater.

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### Section 6: Accidental release measures

#### 6.1 Personal precautions, precaution equipment and emergency procedures

##### For non-emergency personnel:

Wear suitable protective equipment. Avoid inhalation of dust.

Consult an expert if necessary.

##### For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.