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Effective Date: May 31, 2017

**SAFETY DATA SHEET****PARA- CYMENE**

Version: 1.4

**1 Identification of the substance/preparation and of the company/undertaking****· Product Identifiers****· Product name: PARA- CYMENE****· TSCA:** TSCA 8(b) inventory: p-Cymene**· Identified Uses:** Laboratory chemical, Manufacture of flavor & fragrance substances.**· Manufacturer/Supplier:**

Swati Menthol &amp; Allied Chemicals Ltd.

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e-mail: [info@swatimenthol.com](mailto:info@swatimenthol.com)**· Further information obtainable from:** Department Health, Safety and Environment**· Information in case of emergency:** Swati Menthol & Allied Chemicals Ltd.,

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**2 Hazards identification****· Emergency Overview****OSHA Hazards**

Combustible Liquid, Irritant

**Other hazards which do not result in classification**

May form explosive peroxides.

**GHS Classification**

Flammable liquids (Category 3)

Acute toxicity, Oral (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2A) Specific target organ toxicity - single exposure  
(Category 3)

Acute aquatic toxicity (Category 3)

**GHS Label elements, including precautionary statements**



**Signal word: Warning**

Hazard statement(s) H226 Flammable liquid and vapor.

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H402 Harmful to aquatic life.

**Precautionary statement(s)**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. HMIS Classification Hazard description:

All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

### 3 Composition/information on ingredients:

· **Chemical characterization:** BENZENE, 1-METHYL-4-(1-METHYLETHYL)

· **CAS No. Description**

99-87-6 PARA- CYMENE (p-Cymene)

· **Identification number(s)**

· **EC Number:** 202-796-7

· **Concentration:** >= 99%

### 4 First-aid measures

· **General information:** Consult a physician and show this SDS. Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air.

· **After skin contact:**

-Immediately rinse with water and soap.

-If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for 10 minutes under running water. If symptoms persist consult a doctor.

· **After swallowing:** Rinse out mouth. Do not induce vomiting. Seek medical advice immediately and show the container or label.

## 5 Fire-fighting measures

· **Suitable extinguishing agents:** FOG CO<sub>2</sub> yes FOAM yes DRY CHEMICAL yes

**For safety reasons, unsuitable extinguishing agents:** Water with full jet.

· **Special hazards caused by the substance, its products of combustion or resulting gases:**  
-Forms explosive mixtures with air at elevated temperatures.

· **Protective equipment:**  
-Wear self-contained respiratory protective device.  
-Wear fully protective suit.

· **Additional information:** Prevent fire-fighting water from entering surface water or groundwater.

## 6 Accidental release measures

· **Person-related safety precautions:**  
-Do not breathe vapor/spray.

· **Measures for environmental protection:**  
- Do not allow to enter sewers/ surface or ground water.  
- Prevent further leakage or spillage if safe to do so.

· **Measures for cleaning/collecting:**  
-Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).  
-Ensure adequate ventilation.

## 7 Handling and storage

· **Handling:**  
· **Information for safe handling:**  
- Keep away from food, drink and animal feedstuffs. When using, do not smoke. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice  
· **Information about fire - and explosion protection:**  
-Keep ignition sources away - Do not smoke.  
-Protect against electrostatic charges.

· **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in cool and dry conditions; in well-sealed receptacles.
- **Information about storage in one common storage facility:** Store away from foodstuffs.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Do not inhale gases / fumes / aerosols
- **Respiratory protection:**
  - Required when vapours/aerosols are generated. Filter A (colour code: brown).
- **Personal protective equipment:**
  - Protection of hands:



Protective gloves

- **Material of gloves**
  - Nitrile, thickness: 0,4 mm
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



**Tightly sealed goggles**

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

### · General Information

Boiling Point (Thermal Analyzer)	: 176 - 178 °C
Vapour Pressure (ca. 2 mm/Hg) 20 °C	: <1
Vapour Density (Air = 1)	: 4.60
Solubility in water	: Not determined
Colour	: Colorless to pale yellow
Odour	: Lemon type, Fresh
Specific Gravity (Water = 1) 25 °C	: 0.854-0.857
Percent Volatiles by volume	: 100%
Evaporation rate (Butyl Acetate = 1)	: N.A.
Melting Point	: N.A (Liquid)
Flash point	: 47 °C (closed cup)
Physical State	: Clear Liquid

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Heating, open flames.
- **Materials to be avoided:** Strong oxidizing agents, strong reducing agents.
- **Dangerous reactions:** Hazardous polymerization will not occur.
- **Dangerous decomposition products:** Carbon monoxide, carbon dioxide.

## 11 Toxicological information

- **Acute toxicity:**
  - **LD/LC50 values relevant for classification:**
    - Oral LD50 4.750 mg/kg (rat)
    - Dermal LD50 > 5.000 mg/kg (rabbit)
- **Skin corrosion/irritation**

-Skin - rabbit - Mild skin irritation

**. Serious eye damage/eye irritation**

- Contact with the undiluted material may cause irritation.

**.Respiratory or skin sensitization**

-No data available

**.Germ cell mutagenicity**

- No data available

**.Genotoxicity in vitro - rat - Liver**

- No data available

**.Genotoxicity in vivo - mouse - Intraperitoneal**

- No data available

**.Genotoxicity in vivo - rat - Oral**

- No data available

**.Carcinogenicity**

-Limited evidence of a carcinogenic effect.

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

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

**.Reproductive toxicity**

-No data available

**.Specific target organ toxicity - single exposure**

-No data available

**.Specific target organ toxicity - repeated exposure**

-No data available

**.Aspiration hazard**

-No data available

**.Primary irritant effect:**

- **On the skin:** Causes irritations.
- **On the eye:** Causes irritations.
- **After inhalation:** May cause irritations.

• **Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

• **Additional toxicological information:** RTECS: GZ5950000

## 12 Ecological information

• **Persistence and Degradability:** No data available

• **Mobility and bioaccumulation potential:**

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.

• **Ecotoxic effects:** Avoid contaminating waterways.

• **Mobility in soil:** No data available

**General notes:**

Do not allow product to reach ground water, water course or sewage system.

**13 Disposal considerations****Recommendation**

The disposal is regionally differently regulated; therefore the kind of disposal is to be inquired at the responsible authorities.

This material and its container must be disposed of as hazardous waste.

• **Un-cleaned packaging:** Dispose of as unused product.

• **Recommendation:** Disposal according to official regulations.

**14 Transport information****DOT (US)/ Land transport ADR/RID (cross-border)**

UN number: 2046

Class: 3

Packing group: III

Proper shipping name: CYMENES

**Maritime transport IMDG**

UN number: 2046

Class: 3

Packing group: III

Proper shipping name: CYMENES

**Air transport ICAO-TI and IATA-DGR**

UN number: 2046

Class: 3

Packing group: III

Proper shipping name: CYMENES

**Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: yes

IATA: no

**15 Regulatory information:** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

· **Labeling according to EU guidelines:** Regulation (EC) No 1272/2008 [CLP]

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:** no data available

· **Chemical Safety Assessment:** No data available.

**OSHA Hazards:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200) - Combustible Liquid, Irritant.

**SARA 302 Components**

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

**SARA 311/312 Hazards:** Fire Hazard, Acute Health Hazard

**California Prop. 65 Components**

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

**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

In dealing with chemicals the national laws must be observed

**Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This material should only be used for industrial purposes.

**Full text of H-Statements referred to under sections 2 and 3.**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

**HMIS Classification**

Health hazard 1 Flammability 2 Physical hazards 2

· **Department issuing MSDS:** Department: Health, Safety and Environment

· **Contact Person:** T.L Arora

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road



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RID: Regulations Concerning the International Transport of Dangerous Goods by Rail  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
P: Marine Pollutant  
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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent.

**.Key literature references and sources for data:**

1. Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.
2. Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
3. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
4. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

**Reason for Change: N/A**

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