


1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** WINGSTAY® L
- **Article number:** WSLI
- **CAS Number:** 68610-51-5
- **EC number:**
271-867-2
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Antioxidant
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
OMNOVA Solutions Inc
1380 Techway drive
Akron, OH 44306-2532
U.S.A.
msds@omnovasolutions.com
- **Information department:** HSE.
- **Emergency telephone number:**
CHEMTREC United States: +1.800.424.9300
CHEMTREC International: +1.703.527.3887
During normal opening time: +1.330.628.9925 - +1.330.628.6500

2 Hazards identification

- **Hazard description:** Dust can combine with air to form an explosive mixture.
 - **Information pertaining to particular dangers for man and environment:**
May cause long-term adverse effects in the aquatic environment
 - **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
 - **NFPA ratings (scale 0 - 4)**
- 

Health = 1
Fire = 1
Reactivity = 0
- **Results of PBT and vPvB assessment** Not applicable.
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Substances
- **CAS No. Description**
68610-51-5
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene.
Butylated reaction product of p-cresol and dicyclopentadiene.
- **Identification number(s)**
- **EC number:** 271-867-2

4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
Water haze
Foam
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid formation of dust.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
- **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 disposal information.

7 Handling and storage

- **Precautions for safe handling**
Prevent formation of dust.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Dust can combine with air to form an explosive mixture.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
All transfer and storage equipment should be metallised and earthed.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in dry conditions.
Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** See item 7.

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- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing.
- **Breathing equipment:** Suitable respiratory protective device recommended.
- **Protection of hands:** Protective gloves
- **Material of gloves**
PVC gloves
Rubber gloves
Plastic gloves
- **Penetration time of glove material**
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.
- **Eye protection:** Safety glasses
- **Body protection:** Impervious protective clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** Powder
 - Color:** Whitish
 - Odor:** uncharacteristic
- **Change in condition**
 - Melting point/Melting range:** 118°C (244 °F)
 - Boiling point/Boiling range:** Undetermined.
- **Flash point:** > 280°C (> 536 °F)
- **Flammability (solid, gaseous):** Product is not flammable.
- **Ignition temperature:**
 - Decomposition temperature:** >300°C (>572 °F)
- **Auto igniting:** 445 °C (deposit)
- **Danger of explosion:** Product does not present an explosion hazard.
- **Danger of explosion (Cloud):** ST3
- **EMI (Cloud):** <10 mJ
- **KST (Cloud):** 349 bar.m.s-1
- **P.max (Cloud):** 9 bar
- **LOC (Cloud):** 8 %v/v O2/N2
- **Explosion limits:**
 - Lower:** <60 g/m3
(Cloud)
 - Upper:** >1500 g/m3
(Cloud)
- **Density:** Not determined.
- **Bulk density at 20°C (68 °F):** 320 kg/m³
- **Relative density at 20°C (68 °F)** 1.0736

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- **Solubility in / Miscibility with Water at 25°C (77 °F):** <0.01 mg/l
- **aromatic hydrocarbons:** Fully miscible.
- **Log Kow (n-octanol/water):** 7.56 (30°C)
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** None
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Phenolic type compounds.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	>5000 mg/kg (rat) (OECD Guideline 401)
Dermal	LD50	>2000 mg/kg (rat) (OECD Guideline 402)

- **Primary irritant effect:**
- **on the skin:**
New Zealand White rabbits: The primary irritation score was 0.25.
This material is not irritating to the skin.
- **on the eye:** No irritating effect.
- **Sensitization:**
This substance was determined to be non-sensitizing by skin contact in the Guinea Pig test (OECD 406).
- **Other information (about experimental toxicology):**
This material, when administered by gavage, during major organogenesis in CD (Sprague-Dawley) rats resulted in no indication of teratogenicity, but did result in increased incidences of common fetal skeletal variations at 1000, 2000 and 3000 mg/kg/day in the absence of any other indicators of developmental toxicity. The NOAEL for maternal toxicity was 1000 mg/kg/day and the NOAEL for developmental toxicity was at or below 1000 mg/kg/day in rats.
- **Subacute to chronic toxicity:**
In a 90-day dietary study in rats, Wingstay L produced minor blood effects and organ weight increases. NOAEL was 1500 ppm, NOEL was 500 ppm.
Rats fed Wingstay L for up to 28 days and averaging 866 mg (approximately 10,000 ppm) or greater in feed, demonstrated severe systemic toxicity. Rats died when fed extremely high dose levels of Wingstay L (25,000 and 50,000 ppm in feed).
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)** Substance is not listed.
- **NTP (National Toxicology Program)** Substance is not listed.
- **Genetic toxicity**
Chromosomal Aberration Assay in Chinese Hamster Ovary (CHO) cells: negative.

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E.coli Pol A1- assay for DNA damage: negative. The substance was considered negative for inducing forward mutations at the HGPRT locus in CHO cells under both non-activation and activation conditions.

In the Salmonella typhimurium/Escheria coli Plate Incorporation/Preincubation Mutation Assay, under both nonactivation and activation conditions, this substance was negative for inducing reverse mutations.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

EC50 (48 h)	>0.2 mg/l (daphnia) (OECD Guideline 202)
EC50 (96 h)	>0.2 mg/l (fish) (OECD Guideline 203)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** No toxicity demonstrated at limit of solubility.

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must be specially treated adhering to official regulations.

Based upon most recent TCLP data and process knowledge, this product, as sold, would not be hazardous waste (if disposed) per 40CFR 261.24.

· **Uncleaned packagings:**

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

14 Transport information

· **UN-Number**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **Transport hazard class(es)**

· **DOT, ADN**

· **Class** Void

· **ADR, IMDG, IATA**

· **Class** Void
Not classified.

· **Packing group**

· **DOT, ADR, IMDG, IATA** Void

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user** Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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· UN "Model Regulation": -

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances) >0.1%:** Substance is not listed.
- **Section 313 (Specific toxic chemical listings) >0.1%:** Substance is not listed.
- **TSCA (Toxic Substances Control Act):** Substance is listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency) >0.1%** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health) >0.1%** Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration) >0.1%** Substance is not listed.
- **Canadian substance listings:**
- **Canadian Ingredient Disclosure list (limit 0.1%)** Substance is not listed.
- **Canadian Ingredient Disclosure list (limit 1%)** Substance is not listed.
- **This material is included in or exempt from:**
- **Australia:** AICS
- **Canada:** DSL
- **China:** IECSC
- **Europe:** EINECS
- **Japan:** ENCS
- **South Korea:** ECL
- **New Zealand:** TSA
- **Philippines:** PICCS
- **United States:** TSCA

16 Other information

The information provided above is intended as guidance relating to the safe handling, use, processing, storage, transportation, disposal and release of the material listed. Nothing contained herein is to be considered as an express or implied warranty or performance or quality specification. The information relates only to the specific material designated and may not apply for such material when used in combination with any other materials or in any process, except as otherwise specified herein. The information contained herein is believed to be true and correct as of the date that this Material Safety Data Sheet was issued. The material described herein is produced for commercial and industrial use and unless otherwise specifically designated by the manufacturer in writing have not received any specific regulatory approvals including, without limitation, approvals for food contact or medical/surgical applications, such as medical devices.

- **Department issuing MSDS:** HSE.
- **Contact:** msds@omnovasolutions.com
- **Abbreviations and acronyms:**
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organization
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
- *** Data compared to the previous version altered.**

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