












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

- **Product identifier**
- **Trade name:** WINGSTAY® T
- **Article number:** WSTT
- **CAS Number:**
68610-06-0
- **EC number:**
271-847-3
- **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:**
During normal opening time: +1.330.628.9925 - +1.330.628.6500
CHEMTREC United States: +1.800.424.9300
CHEMTREC International: +1.703.527.3887

2 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
68610-06-0 Butylated octyl phenol .Phenol isobutylenated
- **Identification number(s)**
- **EC number:** 271-847-3

· **Dangerous components:**

140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol	 Xi R38-41  N R50/53 <hr/>  H318  H400; H410  H315	≤0.5%
108-95-2	phenol	 T R23/24/25  C R34  Xn R48/20/21/22-68 Muta. Cat. 3 <hr/>  H301; H311; H331  H341; H373  H314	<0.05%

· **SVHC**

140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol
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3 Hazards identification

- **Information concerning particular hazards for human and environment:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**
May cause long-term adverse effects in the aquatic environment

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 1
Reactivity = 0

4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **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. If symptoms persist, consult a doctor.
- **After swallowing:** Seek immediate medical advice.

5 Firefighting measures

- **Suitable extinguishing agents:**
Foam
Carbon dioxide, dry chemicals, water spray.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb liquid components with liquid-binding material.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
- **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**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away
Keep receptacles tightly sealed.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**
Store receptacle in a well ventilated area.
Store in dry conditions.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· Components with limit values that require monitoring at the workplace:

108-95-2 phenol

PEL (USA)	19 mg/m ³ , 5 ppm Skin
REL (USA)	Short-term value: C60* mg/m ³ , C 15.6* ppm Long-term value: 19 mg/m ³ , 5 ppm *15-min; Skin
TLV (USA)	19 mg/m ³ , 5 ppm Skin; BEI
EL (Canada)	5 ppm Skin
EV (Canada)	19 mg/m ³ , 5 ppm Skin

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Protective gloves
- **Material of gloves**
Neoprene gloves
Rubber 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:** Use protective suit.

9 Physical and chemical properties

- **General Information**
- **Appearance:**
 - Form:** Liquid
 - Color:** Light yellow
- **Odor:** Phenol-like
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - Melting point/Melting range:** Undetermined.
 - Boiling point/Boiling range:** >269°C (>516 °F)
(No boiling point observed).
- **Flash point:** 103°C (217 °F)
- **Flammability (solid, gaseous):** Not applicable.

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- **Ignition temperature:**
 - **Decomposition temperature:** Not determined.
- **Auto igniting:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - **Lower:** Not applicable
 - **Upper:** Not applicable
- **Vapor pressure:** Not determined.
- **Density at 25°C (77 °F):** 900 kg/m³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** <100 mg/l
- **Viscosity:**
 - **Dynamic:** Not determined.
 - **Kinematic:** Not determined.
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide
 - Normal hydrocarbon combustion products expected.

11 Toxicological information

- **Acute toxicity:**

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

140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol

Oral	LD50	3210 mg/kg (mouse)
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108-95-2 phenol

Oral	LD50	317 mg/kg (rat)
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Dermal	LD50	850 mg/kg (rabbit)
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- **Primary irritant effect:**
- **on the skin:** Not determined
- **on the eye:** Not determined
- **Sensitization:** Not determined

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.

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- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Toxic for aquatic organisms

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
 - **DOT, ADN**
 - **ADR, IMDG, IATA**
 - **UN proper shipping name**
 - **DOT, ADN**
 - **ADR**
 - **IMDG**
 - **IATA**
 - **Transport hazard class(es)**
 - **DOT, ADN**
 - **Class**
- Void
UN3082
Void
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(1,1,3,3-tetramethylbutyl)phenol)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(1,1,3,3-tetramethylbutyl)phenol), MARINE POLLUTANT
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(1,1,3,3-tetramethylbutyl)phenol)
Void

· **ADR**



- **Class**
 - **Label**
- 9 (M6) Miscellaneous dangerous substances and articles
9

· **IMDG, IATA**



- **Class**
 - **Label**
 - **Packing group**
 - **DOT**
- 9 Miscellaneous dangerous substances and articles.
9
Void

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- **ADR, IMDG, IATA** III
- **Environmental hazards:** Product contains environmentally hazardous substances: 4-(1,1,3,3-tetramethylbutyl)phenol
- **Marine pollutant:** Symbol (fish and tree)
- **Special marking (ADR):** Symbol (fish and tree)
- **Special marking (IATA):** Symbol (fish and tree)
- **Special precautions for user** Warning: Miscellaneous dangerous substances and articles
- **Danger code (Kemler):** 90
- **EMS Number:** F-A,S-F
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(1,1,3,3-tetramethylbutyl)phenol), 9, III

15 Regulatory information

· **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.

· **IARC (International Agency for Research on Cancer) >0.1%**

Substance is not listed.

· **NTP (National Toxicology Program) >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.

· **Product related hazard informations:**

· **Hazard symbols:**



Dangerous for the environment

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- **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:**
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 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

USA