






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

- **Product identifier**
- **Trade name:** WINGSTAY® 29
- **Article number:** WSO29
- **CAS Number:**
68442-68-2
- **EC number:**
270-485-3
- **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:**
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 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
68442-68-2 SDPA: Benzenamine, N-phenyl-,styrenated.
Mixture of styrenated diphenylamines.
- **Identification number(s)**
- **EC number:** 270-485-3

Dangerous components:

68442-68-2	SDPA: Benzenamine, N-phenyl-,styrenated. Mixture of styrenated diphenylamines. R53 H413	>99%
122-39-4	diphenylamine  T R23/24/25  N R50/53 R33  H301; H311; H331  H373  H400; H410	<0.25%

3 Hazards identification

- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of international guidelines.
- **Information pertaining to particular dangers for man and environment:**
May cause long-term adverse effects in the aquatic environment

(Contd. on page 2)

USA

Trade name: WINGSTAY® 29

(Contd. of page 1)

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



Health = 0
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. Then consult a doctor.
- **After swallowing:** Seek immediate medical advice.

5 Firefighting measures

- **Suitable extinguishing agents:**
Fire-extinguishing powder
Carbon dioxide
Foam
- **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**
Particular danger of slipping on leaked/spilled product.
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:**
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
Absorb liquid components with liquid-binding material.
- **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

- **Handling:**
- **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:**
Protect from heat.
Keep ignition sources away
Keep receptacles tightly sealed.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.

(Contd. on page 3)

USA

Trade name: WINGSTAY® 29

(Contd. of page 2)

- **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:** No further data; see item 7.

Components with limit values that require monitoring at the workplace:

122-39-4 diphenylamine

REL (USA)	10 mg/m ³
TLV (USA)	10 mg/m ³
EL (Canada)	10 mg/m ³
EV (Canada)	10 mg/m ³

100-42-5 styrene

REL (USA)	Short-term value: C 200; 600* ppm Long-term value: 100 ppm *5-min peak in any 3 hrs
REL (USA)	Short-term value: 425 mg/m ³ , 100 ppm Long-term value: 215 mg/m ³ , 50 ppm
TLV (USA)	Short-term value: 170 mg/m ³ , 40 ppm Long-term value: 85 mg/m ³ , 20 ppm BEI

100-41-4 ethylbenzene

REL (USA)	435 mg/m ³ , 100 ppm
REL (USA)	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV (USA)	Short-term value: 543 mg/m ³ , 125 ppm Long-term value: 87 mg/m ³ , 20 ppm BEI

- **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

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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:

Face protection
Safety glasses

Body protection:

Boots
Use protective suit.

9 Physical and chemical properties

General Information

Appearance:

Form: Viscous

(Contd. on page 4)

USA

Trade name: WINGSTAY® 29

(Contd. of page 3)

- **Color:** Light yellow
- **Odor:** Aromatic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - **Melting point/Melting range:** Undetermined.
 - **Boiling point/Boiling range:** 150°C (302 °F)
- **Flash point:** 238°C (460 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:**
 - **Decomposition temperature:** >260°C (>500 °F)
- **Auto igniting:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
- **Vapor pressure at 38°C (100 °F):** <1 mm Hg
- **Density:** Not determined.
- **Bulk density at 20°C (68 °F):** 1080 kg/m³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** DSDPA, 1.55 µg/l, 20°C, (OECD Guideline 105, 1995).
- **aromatic hydrocarbons:** Fully miscible.
- **Log Kow (n-octanol/water):** DSDPA: 7.71, 25°C (OECD Guideline 123, 2006)
MSDPA: 5.86, 25°C (OECD Guideline 123, 2006)
- **Viscosity:**
 - **Dynamic:** 30000 - 50000 mPa.s, 25°C
 - **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:**
 - Nitrogen oxides (NO_x)
 - Carbon monoxide and carbon dioxide
 - Normal hydrocarbon combustion products expected.

11 Toxicological information

- **Acute toxicity:**

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

68442-68-2 SDPA: Benzenamine, N-phenyl-,styrenated.
Mixture of styrenated diphenylamines.

Oral	LD50	>20000 mg/kg (rat)
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(Contd. on page 5)

USA

Trade name: WINGSTAY® 29

(Contd. of page 4)

Dermal	LD50	>10000 mg/kg (rabbit)
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- **Primary irritant effect:**
- **on the skin:** Not determined
- **on the eye:** Not determined
- **Sensitization:**
This substance was determined to be non-sensitizing by skin contact in the Guinea Pig test. (similar product).

12 Ecological information

- **Acquatic toxicity:**
68442-68-2 SDPA: Benzenamine, N-phenyl-,styrenated.
Mixture of styrenated diphenylamines.
- **EC50 (96 h)** 920 mg/l (fish)
- **Persistence and degradability** No further relevant information available.
- **Other information:**
21 days-NOEC-Reproduction, Daphnia Magna: MSDSPA, 20.6 µg/l (OECD Guideline 211, 1998)
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Assessment by list): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Harmful to 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, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Void
- **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.
- **UN "Model Regulation":** -

(Contd. on page 6)

USA

Trade name: WINGSTAY® 29

(Contd. of page 5)

15 Regulatory information

· Sara

· **Section 355 (extremely hazardous substances) >0.1%:**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings) >0.1%:**

122-39-4 | diphenylamine

· **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%)**

122-39-4 | diphenylamine

· **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
- **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)

(Contd. on page 7)

USA

Trade name: WINGSTAY® 29

(Contd. of page 6)

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

· * **Data compared to the previous version altered.**

USA