

## Safety Data Sheet

### TRITON™ HW-1000 Surfactant

Version 1.1

Revision Date: 11/05/2022

#### SECTION 1. IDENTIFICATION

**Product name** : TRITON™ HW-1000 Surfactant

**Synonyms** : Secondary Alcohol Ethoxylate

#### Recommended use of the chemical and restrictions on use

**Recommended use** : Surfactant

**Restricted Uses** : No data available

#### Manufacturer or supplier's details

**Company** : Univar Solutions Canada Ltd.  
**Address** : 64 Arrow Road  
 North York, ON, M9M 2L9  
 Canada

#### Emergency telephone number:

Local Emergency Contact : During Office hours Monday-Friday, 8.00 am - 4.30 pm (Pacific Standard Time) : 1-866-686-4827

**Additional Information:** : Responsible Party: Product Compliance Department  
 E-mail: SDSNA@univarsolutions.com  
 SDS Requests: 1-855-429-2661  
 Website: www.univarsolutions.com

#### SECTION 2. HAZARD IDENTIFICATION

#### Hazardous Classification of the substance or mixture

**Skin irritation** : Category 2

**Serious eye damage** : Category 1

#### Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : H315 Causes skin irritation.  
 H318 Causes serious eye damage.

**Precautionary statements** : **Prevention:**  
 P264 Wash skin thoroughly after handling.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
 P302 + P352 IF ON SKIN: Wash with plenty of water.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
 P332 + P313 If skin irritation occurs: Get medical advice/ atten-

## Safety Data Sheet

### TRITON™ HW-1000 Surfactant

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Revision Date: 11/05/2022

tion.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

#### Hazardous components

| CAS-No.    | Chemical name                                                                             | % by Weight | Synonyms                                                                                  |
|------------|-------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------|
| 60828-78-6 | Poly(oxy-1,2-ethanediyl), .alpha.-[3,5-dimethyl-1-(2-methylpropyl)hexyl]-.omega.-hydroxy- | 80 - 100    | Poly(oxy-1,2-ethanediyl), .alpha.-[3,5-dimethyl-1-(2-methylpropyl)hexyl]-.omega.-hydroxy- |

Actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST-AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.  
Take victim immediately to hospital.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

## Safety Data Sheet

### TRITON™ HW-1000 Surfactant

Version 1.1

Revision Date: 11/05/2022

#### SECTION 5. FIREFIGHTING MEASURES

- |                                               |                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Water spray<br>Dry chemical<br>Carbon dioxide (CO <sub>2</sub> )<br>Alcohol-resistant foam                                                                                                                              |
| Unsuitable extinguishing media                | : High volume water jet                                                                                                                                                                                                   |
| Specific hazards during fire-fighting         | : Do not allow run-off from fire fighting to enter drains or water courses.                                                                                                                                               |
| Hazardous combustion products                 | : No hazardous combustion products are known                                                                                                                                                                              |
| Further information                           | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                                                                  |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |                                                                     |                                                                                                                                                                                           |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.                                                                                                                                                      |
| Environmental precautions                                           | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.                             |

#### SECTION 7. HANDLING AND STORAGE

- |                                                 |                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion | : Normal measures for preventive fire protection.                                                                                                                                                                                                                                                                                        |
| Advice on safe handling                         | : Do not breathe vapours/dust.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>To avoid spills during handling keep bottle on a metal tray.<br>Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage                     | : Keep container tightly closed in a dry and well-ventilated place.<br>Electrical installations / working materials must comply with the technological safety standards.                                                                                                                                                                 |

## Safety Data Sheet

### TRITON™ HW-1000 Surfactant

Version 1.1

Revision Date: 11/05/2022

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

##### Personal protective equipment

|                          |   |                                                                                                                                              |
|--------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection   | : | No personal respiratory protective equipment normally required.<br>In the case of vapour formation use a respirator with an approved filter. |
| Hand protection          | : |                                                                                                                                              |
| Remarks                  | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves.                                    |
| Eye protection           | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing problems.  |
| Skin and body protection | : | Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.        |
| Hygiene measures         | : | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                           |

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                             |   |                                                                     |
|---------------------------------------------|---|---------------------------------------------------------------------|
| Appearance                                  | : | liquid                                                              |
| Colour                                      | : | yellow                                                              |
| Odour                                       | : | mild                                                                |
| Odour Threshold                             | : | No data available                                                   |
| pH                                          | : | Estimated 6                                                         |
| Freezing Point (Pour point)                 | : | -57 °C (-71 °F)                                                     |
| Boiling Point (Boiling point/boiling range) | : | Estimated > 200 °C (> 392 °F)<br>(1013 hPa)                         |
| Flash point                                 | : | 163 °C (325 °F)<br>Method: ASTM D 93, closed cup                    |
| Evaporation rate                            | : | Estimated < 0.01<br>(Butyl Acetate = 1)                             |
| Flammability (solid, gas)                   | : | No data available                                                   |
| Upper explosion limit                       | : | No data available                                                   |
| Lower explosion limit                       | : | No data available                                                   |
| Vapour pressure                             | : | Estimated < 0.001 mmHg @ 20 °C (68 °F)                              |
| Relative vapour density                     | : | Estimated > 10                                                      |
| Relative density                            | : | Calculated 0.96 @ 20 °C (68 °F)<br>Reference substance: (water = 1) |

**Safety Data Sheet****TRITON™ HW-1000 Surfactant**

Version 1.1

Revision Date: 11/05/2022

|                                        |                                                                  |
|----------------------------------------|------------------------------------------------------------------|
| Density                                | : No data available                                              |
| Solubility(ies)                        |                                                                  |
| Water solubility                       | : dispersible                                                    |
| Solubility in other solvents           | : No data available                                              |
| Partition coefficient: n-octanol/water | : No data available                                              |
| Auto-ignition temperature              | : No data available                                              |
| Thermal decomposition                  | : No data available                                              |
| Viscosity                              |                                                                  |
| Viscosity, kinematic                   | : 17.9 mm <sup>2</sup> /s @ 40 °C (104 °F)<br>Method: ASTM D 445 |

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| Reactivity                         | : No decomposition if stored and applied as directed. |
| Chemical stability                 | : No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : No decomposition if stored and applied as directed. |
| Conditions to avoid                | : No data available                                   |
| Incompatible materials             | : Oxidizing agents<br>Strong acids<br>Strong bases    |

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 3,368 mg/kg

**Components:****60828-78-6:**

Acute oral toxicity : LD50 (Rat): 3,300 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): 8,874 mg/kg

**Skin corrosion/irritation****Components:****60828-78-6:**

Result: Irritating to skin.

Remarks: No data available

**Safety Data Sheet****TRITON™ HW-1000 Surfactant**

Version 1.1

Revision Date: 11/05/2022

**Serious eye damage/eye irritation****Components:****60828-78-6:**

Result: Risk of serious damage to eyes.

Remarks: No data available

**Germ cell mutagenicity****Components:****60828-78-6:**

Germ cell mutagenicity - Assessment : mutagenicity classification is not possible

**Carcinogenicity****Components:****60828-78-6:**

Carcinogenicity - Assessment : carcinogenicity classification is not possible

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity****Components:****60828-78-6:**

Reproductive toxicity - Assessment : reproduction classification is not possible

Teratogenicity - Assessment : teratogenicity classification is not possible

**Further information****Product:**

Remarks: No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Acute aquatic toxicity- Assessment : This product has no known ecotoxicological effects.

Chronic aquatic toxicity- Assessment :

This product has no known ecotoxicological effects.

**Safety Data Sheet****TRITON™ HW-1000 Surfactant**

Version 1.1

Revision Date: 11/05/2022

**Components:****60828-78-6:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 16 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : Remarks: No data available

Acute aquatic toxicity- As- : Toxic to aquatic life.  
essment

Chronic aquatic toxicity- As- : Toxic to aquatic life with long lasting effects.  
essment

**Persistence and degradability****Components:****60828-78-6:**

Biodegradability : Remarks: Not readily biodegradable.

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological infor- : No data available  
mation

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**Safety Data Sheet****TRITON™ HW-1000 Surfactant**

Version 1.1

Revision Date: 11/05/2022

**SECTION 14. TRANSPORT INFORMATION****TDG (Transportation of Dangerous Goods):** Not regulated as a dangerous good**IATA (International Air Transport Association):** Not regulated as a dangerous good**IMDG-Code:** Not regulated as a dangerous good**SECTION 15. REGULATORY INFORMATION**

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

**The components of this product are reported in the following inventories:**

|       |                                                          |
|-------|----------------------------------------------------------|
| TSCA  | : On TSCA Inventory                                      |
| DSL   | : All components of this product are on the Canadian DSL |
| AICS  | : On the inventory, or in compliance with the inventory  |
| NZIoC | : Not in compliance with the inventory                   |
| ENCS  | : Not in compliance with the inventory                   |
| KECI  | : On the inventory, or in compliance with the inventory  |
| PICCS | : On the inventory, or in compliance with the inventory  |
| IECSC | : On the inventory, or in compliance with the inventory  |

**SECTION 16. OTHER INFORMATION**

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions EHS Product Compliance Department (1-855-429-2661) [SDSNA@univarsolutions.com](mailto:SDSNA@univarsolutions.com).

**Revision Date** : 11/05/2022**Material number:**

16159922, 16156111, 16126665, 16126664

## Safety Data Sheet

### TRITON™ HW-1000 Surfactant

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| Key or legend to abbreviations and acronyms used in the safety data sheet |                                                          |       |                                                                                      |
|---------------------------------------------------------------------------|----------------------------------------------------------|-------|--------------------------------------------------------------------------------------|
| ACGIH                                                                     | American Conference of Government Industrial Hygienists  | LD50  | Lethal Dose 50%                                                                      |
| AICS                                                                      | Australia, Inventory of Chemical Substances              | LOAEL | Lowest Observed Adverse Effect Level                                                 |
| DSL                                                                       | Canada, Domestic Substances List                         | NFPA  | National Fire Protection Agency                                                      |
| NDSL                                                                      | Canada, Non-Domestic Substances List                     | NIOSH | National Institute for Occupational Safety & Health                                  |
| CNS                                                                       | Central Nervous System                                   | NTP   | National Toxicology Program                                                          |
| CAS                                                                       | Chemical Abstract Service                                | NZIoC | New Zealand Inventory of Chemicals                                                   |
| EC50                                                                      | Effective Concentration                                  | NOAEL | No Observable Adverse Effect Level                                                   |
| EC50                                                                      | Effective Concentration 50%                              | NOEC  | No Observed Effect Concentration                                                     |
| EGEST                                                                     | EOSCA Generic Exposure Scenario Tool                     | OSHA  | Occupational Safety & Health Administration                                          |
| EOSCA                                                                     | European Oilfield Specialty Chemicals Association        | PEL   | Permissible Exposure Limit                                                           |
| EINECS                                                                    | European Inventory of Existing Chemical Substances       | PICCS | Philippines Inventory of Commercial Chemical Substances                              |
| MAK                                                                       | Germany Maximum Concentration Values                     | PRNT  | Presumed Not Toxic                                                                   |
| GHS                                                                       | Globally Harmonized System                               | RCRA  | Resource Conservation Recovery Act                                                   |
| >=                                                                        | Greater Than or Equal To                                 | STEL  | Short-term Exposure Limit                                                            |
| IC50                                                                      | Inhibition Concentration 50%                             | SARA  | Superfund Amendments and Reauthorization Act.                                        |
| IARC                                                                      | International Agency for Research on Cancer              | TLV   | Threshold Limit Value                                                                |
| IECSC                                                                     | Inventory of Existing Chemical Substances in China       | TWA   | Time Weighted Average                                                                |
| ENCS                                                                      | Japan, Inventory of Existing and New Chemical Substances | TSCA  | Toxic Substance Control Act                                                          |
| KECI                                                                      | Korea, Existing Chemical Inventory                       | UVCB  | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <=                                                                        | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials Information System                                     |
| LC50                                                                      |                                                          |       | Lethal Concentration 50%                                                             |