

06-Apr-2020

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product identifier**

**Product Name** Corning 3D Clear Antibody Buffer  
**Product Code** 5734 , 5735

**Other means of identification**

**Pure substance/mixture** Mixture

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

For research use only. Not Intended for Diagnostic or Therapeutic Use.

**Details of the supplier of the safety data sheet**

**Company Name** Corning Incorporated  
 836 North Street  
 Tewksbury, MA 01876

**E-mail address** ScientificSupport@corning.com

**Emergency telephone number**

Chemtrec: +1-800-424-9300 (USA), +1-703-527-3887 (International; Call collect)

**2. HAZARDS IDENTIFICATION****Classification**

OSHA Regulatory Status

**Label elements**

**Signal word** Warning

**Hazards not otherwise classified (HNOC)****Unknown Acute Toxicity**

3% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                 | CAS No.    | Weight-% |
|-------------------------------|------------|----------|
| Water                         | 7732-18-5  | 60 - 100 |
| Dimethyl sulfoxide            | 67-68-5    | 3 - 7    |
| Normal Donkey Serum           | NA         | 3 - 7    |
| Tween 20                      | 9005-64-5  | 0.1 - 1  |
| Sodium phosphate dibasic      | 7558-79-4  | <0.1     |
| Sodium chloride               | 7647-14-5  | <0.1     |
| Sodium azide                  | 26628-22-8 | <0.1     |
| Potassium Phosphate Monobasic | 7778-77-0  | <0.1     |
| Potassium chloride            | 7447-40-7  | <0.1     |
| Heparin                       | 9005-49-6  | <0.1     |

**4. FIRST AID MEASURES****First aid measures****Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. Call a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. Call a physician.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Call a physician.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical****Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Avoid breathing dust/fume/gas/mist/vapors/spray

**Environmental precautions**

Prevent product from entering drains.

**Methods and material for containment and cleaning up**

Prevent further leakage or spillage if safe to do so. Avoid creating dust. Cover powder spill with plastic sheet or tarp to minimize spreading. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

| Chemical Name | ACGIH TLV  | OSHA PEL  | NIOSH IDLH  |
|---------------|--|---|---|
| Sodium azide  | Ceiling: 0.29 mg/m <sup>3</sup> NaN <sub>3</sub><br>Ceiling: 0.11 ppm Hydrazoic acid vapor | (vacated) S*<br>(vacated) Ceiling: 0.1 ppm HN <sub>3</sub><br>(vacated) Ceiling: 0.3 mg/m <sup>3</sup> NaN <sub>3</sub> | Ceiling: 0.1 ppm HN <sub>3</sub><br>Ceiling: 0.3 mg/m <sup>3</sup> NaN <sub>3</sub> |

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand Protection** Wear protective nitrile rubber gloves.

**Skin and body protection** Suitable protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | No information available | <b>Odor</b>           | No information available |
| <b>Appearance</b>     | No information available | <b>Odor threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| <u>Property</u>               | <u>Values</u>            | <u>Remarks • Method</u> |
|-------------------------------|--------------------------|-------------------------|
| pH                            | No information available |                         |
| Melting point/freezing point  | No information available |                         |
| Boiling point / boiling range | No information available |                         |
| Flash point                   | No information available |                         |
| Evaporation rate              | No information available |                         |
| Flammability (solid, gas)     | No information available |                         |
| Flammability Limit in Air     |                          |                         |
| Upper flammability limit:     | No information available |                         |
| Lower flammability limit      | No information available |                         |
| Vapor pressure                | No information available |                         |
| Vapor density                 | No information available |                         |
| Specific Gravity              | No information available |                         |
| Water solubility              | No information available |                         |
| Solubility in other solvents  | No information available |                         |
| Partition coefficient         | No information available |                         |
| Autoignition temperature      | No information available |                         |
| Decomposition temperature     | No information available |                         |
| Kinematic viscosity           | No information available |                         |
| Dynamic viscosity             | No information available |                         |
| Oxidizing properties          | No information available |                         |
| Explosive properties          | No information available |                         |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

None known.

### Incompatible materials

Strong oxidizing agents.

### Hazardous Decomposition Products

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product Information

No acute toxicity information is available for this product

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------|-------------|-----------------|
|---------------|-----------|-------------|-----------------|

| Chemical Name                         | Oral LD50            | Dermal LD50                              | Inhalation LC50                   |
|---------------------------------------|----------------------|--|-----------------------------------|
| Water<br>7732-18-5                    | > 90 mL/kg ( Rat )   | -  | -                                 |
| Dimethyl sulfoxide<br>67-68-5         | 14500 mg/kg (rat)    | 40000 mg/kg (rat)                        | -                                 |
| Sodium azide<br>26628-22-8            | = 27 mg/kg ( Rat )   | = 50 mg/kg ( Rat ) = 20 mg/kg ( Rabbit ) | -                                 |
| Potassium chloride<br>7447-40-7       | = 2600 mg/kg ( Rat ) | -  | -                                 |
| Sodium phosphate dibasic<br>7558-79-4 | = 17 g/kg ( Rat )    | -  | -                                 |
| Sodium chloride<br>7647-14-5          | = 3 g/kg ( Rat )     | -  | > 42 g/m <sup>3</sup> ( Rat ) 1 h |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**Developmental Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Unknown Acute Toxicity**

3% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity****Persistence and degradability**

No information available.

**Bioaccumulation**

No information available

**Mobility in soil**

No information available.

**Other adverse effects**

No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

| Chemical Name              | California Hazardous Waste Status |
|----------------------------|-----------------------------------|
| Sodium azide<br>26628-22-8 | Ignitable<br>Reactive             |

## 14. TRANSPORT INFORMATION

DOT Not regulated  
IATA Not regulated  
IMDG Not regulated

## 15. REGULATORY INFORMATION

### US Federal Regulations

SARA 311/312 Hazard Categories

CWA (Clean Water Act)

| Chemical Name            | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium phosphate dibasic | 5000 lb                     | -                      | -                         | X                          |

### CERCLA

| Chemical Name            | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                   |
|--------------------------|--------------------------|----------------|--|
| Sodium azide             | 1000 lb                  | 1000 lb        | RQ 1000 lb final RQ<br>RQ 454 kg final RQ  |
| Sodium phosphate dibasic | 5000 lb                  | -              | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

### US State Regulations

California Proposition 65

### U.S. State Right-to-Know Regulations

| Chemical Name                               | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Water (CAS #: 7732-18-5)                    | -          | -             | X            |
| Dimethyl sulfoxide (CAS #: 67-68-5)         | X          | -             | -            |
| Sodium azide (CAS #: 26628-22-8)            | X          | X             | X            |
| Sodium phosphate dibasic (CAS #: 7558-79-4) | X          | X             | X            |

## 16. OTHER INFORMATION

Version 1

Revision Date

06-Apr-2020

Revision Note

Not Applicable

### Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither Corning Incorporated nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**End of Safety Data Sheet**