



## FW-CCP N&A Coconut Cream Pie Flavor

Flavor West Manufacturing, LLC.

Chemwatch Hazard Alert Code: 4

Version No: 1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 11/11/2021

Print Date: 11/11/2021

L.GHS.USA.EN

### SECTION 1 Identification

#### Product Identifier

|                               |                                     |
|-------------------------------|-------------------------------------|
| Product name                  | FW-CCP N&A Coconut Cream Pie Flavor |
| Synonyms                      | Not Available                       |
| Other means of identification | Not Available                       |

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

|                          |   |
|--------------------------|---|
| Relevant identified uses | Use according to manufacturer's directions. |
|--------------------------|---|

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                         |  |
|-------------------------|--|
| Registered company name | Flavor West Manufacturing, LLC.                            |
| Address                 | 29400 Hunco Way, Lake Elsinore CA 92530 United States      |
| Telephone               | (951) 893-5120   |
| Fax                     | (714) 276-1621   |
| Website                 | <a href="http://www.FlavorWest.com">www.FlavorWest.com</a> |
| Email                   | Flavor@FlavorWest.com                                      |

#### Emergency phone number

| Association / Organisation        | Chemwatch | CHEMWATCH EMERGENCY RESPONSE |
|-----------------------------------|-----------|------------------------------|
| Emergency telephone numbers       | see below | +61 2 9186 1132              |
| Other emergency telephone numbers | see below | +1 855-237-5573              |

Once connected and if the message is not in your preferred language then please dial 01

Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

### SECTION 2 Hazard(s) identification

#### Classification of the substance or mixture

NFPA 704 diamond




Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

## FW-CCP N&amp;A Coconut Cream Pie Flavor

|                       |   |
|-----------------------|---|
| <b>Classification</b> | Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Skin Corrosion/Irritation Category 2 |
|-----------------------|---|

## Label elements

|                            |   |
|----------------------------|---|
| <b>Hazard pictogram(s)</b> |  |
|----------------------------|---|

|                    |                |
|--------------------|----------------|
| <b>Signal word</b> | <b>Warning</b> |
|--------------------|----------------|

## Hazard statement(s)

|             |                                   |
|-------------|-----------------------------------|
| <b>H319</b> | Causes serious eye irritation.    |
| <b>H335</b> | May cause respiratory irritation. |
| <b>H315</b> | Causes skin irritation.           |

## Hazard(s) not otherwise classified

Not Applicable

## Precautionary statement(s) General

|             |   |
|-------------|---|
| <b>P101</b> | If medical advice is needed, have product container or label at hand. |
| <b>P102</b> | Keep out of reach of children.  |
| <b>P103</b> | Read label before use.  |

## Precautionary statement(s) Prevention

|             |  |
|-------------|--|
| <b>P271</b> | Use only outdoors or in a well-ventilated area.                                  |
| <b>P261</b> | Avoid breathing mist/vapours/spray.  |
| <b>P280</b> | Wear protective gloves, protective clothing, eye protection and face protection. |
| <b>P264</b> | Wash all exposed external body areas thoroughly after handling.                  |

## Precautionary statement(s) Response

|                       |  |
|-----------------------|--|
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>P312</b>           | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.  |
| <b>P337+P313</b>      | If eye irritation persists: Get medical advice/attention.  |
| <b>P302+P352</b>      | IF ON SKIN: Wash with plenty of water.   |
| <b>P304+P340</b>      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| <b>P332+P313</b>      | If skin irritation occurs: Get medical advice/attention.   |
| <b>P362+P364</b>      | Take off contaminated clothing and wash it before reuse.   |

## Precautionary statement(s) Storage

|                  |  |
|------------------|--|
| <b>P405</b>      | Store locked up.   |
| <b>P403+P233</b> | Store in a well-ventilated place. Keep container tightly closed. |

## Precautionary statement(s) Disposal

|             |  |
|-------------|--|
| <b>P501</b> | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|-------------|--|

## SECTION 3 Composition / information on ingredients

## Substances

See section below for composition of Mixtures

## Mixtures

| CAS No  | %[weight] | Name                    |
|---------|-----------|-------------------------|
| 57-55-6 | 70-80     | <u>propylene glycol</u> |

Continued...

## FW-CCP N&amp;A Coconut Cream Pie Flavor

| CAS No  | %[weight] | Name            |
|---------|-----------|-----------------|
| 56-81-5 | 20-30     | <u>glycerol</u> |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4 First-aid measures

### Description of first aid measures

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                                      |
| <b>Skin Contact</b> | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>  |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor, without delay.</li> </ul> |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |

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

See Section 11

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

- ▶ Polyethylene glycols are generally poorly absorbed orally and are mostly unchanged by the kidney.
- ▶ Dermal absorption can occur across damaged skin (e.g. through burns) leading to increased osmolality, anion gap metabolic acidosis, elevated calcium, low ionised calcium, CNS depression and renal failure.
- ▶ Treatment consists of supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

Propylene glycol is primarily a CNS depressant in large doses and may cause hypoglycaemia, lactic acidosis and seizures.

- ▶ The usual measures are supportive care and decontamination (Ipecac/ lavage/ activated charcoal/ cathartics), within 2 hours of exposure should suffice.
- ▶ Check the anion gap, arterial pH, renal function and glucose levels.

Ellenhorn and Barceloux: Medical Toxicology

## SECTION 5 Fire-fighting measures

### Extinguishing media

- ▶ Alcohol stable foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- ▶ Carbon dioxide.

### Special hazards arising from the substrate or mixture

|                             |  |
|-----------------------------|--|
| <b>Fire Incompatibility</b> | <ul style="list-style-type: none"> <li>▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|-----------------------------|--|

### Special protective equipment and precautions for fire-fighters

|                      |   |
|----------------------|---|
| <b>Fire Fighting</b> | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear full body protective clothing with breathing apparatus.</li> </ul> |
|----------------------|---|

Continued...

## FW-CCP N&amp;A Coconut Cream Pie Flavor

|                              |  |
|------------------------------|--|
|                              | <ul style="list-style-type: none"> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>   |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> </ul> <p>Combustion products include:<br/>carbon dioxide (CO<sub>2</sub>)<br/>acrolein<br/>other pyrolysis products typical of burning organic material.<br/>May emit poisonous fumes.<br/>May emit corrosive fumes.</p> |

**SECTION 6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

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

| <b>Minor Spills</b>                | <ul style="list-style-type: none"> <li>▶ Remove all ignition sources.</li> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> <li>▶ Control personal contact with the substance, by using protective equipment.</li> </ul>   |              |            |                 |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
|------------------------------------|--|--------------|------------|-----------------|------------|-------------|---------------------------|--|--|--|--|------------------------------------|---|--------|--------|----------|-------------------------------|---|-------|-----------|------------|----------------------------|---|--------|--------|---------|---------------------|---|-------|-----------|---------------|-----------------------------|---|-------|-----------|---------|-----------------------|---|-------|-----------|---------------|----------------------------|--|--|--|--|------------------------------------|---|--------|------------|----------|-----------------------------|---|--------|------------|------------|----------------------------|---|--------|------------|-----------------|---------------------|---|-------|------------|---------|--------------------------------|---|--------|------------|-----------------|--------------------|---|-------|------------|---------|
| <b>Major Spills</b>                | <p>Chemical Class: alcohols and glycols<br/>For release onto land: recommended sorbents listed in order of priority.</p> <table border="1"> <thead> <tr> <th>SORBENT TYPE</th> <th>RANK</th> <th>APPLICATION</th> <th>COLLECTION</th> <th>LIMITATIONS</th> </tr> </thead> <tbody> <tr> <td colspan="5"><b>LAND SPILL - SMALL</b></td> </tr> <tr> <td>cross-linked polymer - particulate</td> <td>1</td> <td>shovel</td> <td>shovel</td> <td>R, W, SS</td> </tr> <tr> <td>cross-linked polymer - pillow</td> <td>1</td> <td>throw</td> <td>pitchfork</td> <td>R, DGC, RT</td> </tr> <tr> <td>sorbent clay - particulate</td> <td>2</td> <td>shovel</td> <td>shovel</td> <td>R, I, P</td> </tr> <tr> <td>wood fiber - pillow</td> <td>3</td> <td>throw</td> <td>pitchfork</td> <td>R, P, DGC, RT</td> </tr> <tr> <td>treated wood fiber - pillow</td> <td>3</td> <td>throw</td> <td>pitchfork</td> <td>DGC, RT</td> </tr> <tr> <td>foamed glass - pillow</td> <td>4</td> <td>throw</td> <td>pitchfork</td> <td>R, P, DGC, RT</td> </tr> <tr> <td colspan="5"><b>LAND SPILL - MEDIUM</b></td> </tr> <tr> <td>cross-linked polymer - particulate</td> <td>1</td> <td>blower</td> <td>skiploader</td> <td>R, W, SS</td> </tr> <tr> <td>polypropylene - particulate</td> <td>2</td> <td>blower</td> <td>skiploader</td> <td>W, SS, DGC</td> </tr> <tr> <td>sorbent clay - particulate</td> <td>2</td> <td>blower</td> <td>skiploader</td> <td>R, I, W, P, DGC</td> </tr> <tr> <td>polypropylene - mat</td> <td>3</td> <td>throw</td> <td>skiploader</td> <td>DGC, RT</td> </tr> <tr> <td>expanded mineral - particulate</td> <td>3</td> <td>blower</td> <td>skiploader</td> <td>R, I, W, P, DGC</td> </tr> <tr> <td>polyurethane - mat</td> <td>4</td> <td>throw</td> <td>skiploader</td> <td>DGC, RT</td> </tr> </tbody> </table> <p>Legend<br/>DGC: Not effective where ground cover is dense<br/>R; Not reusable<br/>I: Not incinerable<br/>P: Effectiveness reduced when rainy<br/>RT: Not effective where terrain is rugged<br/>SS: Not for use within environmentally sensitive sites<br/>W: Effectiveness reduced when windy<br/>Reference: Sorbents for Liquid Hazardous Substance Cleanup and Control;<br/>R.W Melvold et al: Pollution Technology Review No. 150: Noyes Data Corporation 1988<br/>Moderate hazard.</p> <ul style="list-style-type: none"> <li>▶ Clear area of personnel and move upwind.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> </ul> | SORBENT TYPE | RANK       | APPLICATION     | COLLECTION | LIMITATIONS | <b>LAND SPILL - SMALL</b> |  |  |  |  | cross-linked polymer - particulate | 1 | shovel | shovel | R, W, SS | cross-linked polymer - pillow | 1 | throw | pitchfork | R, DGC, RT | sorbent clay - particulate | 2 | shovel | shovel | R, I, P | wood fiber - pillow | 3 | throw | pitchfork | R, P, DGC, RT | treated wood fiber - pillow | 3 | throw | pitchfork | DGC, RT | foamed glass - pillow | 4 | throw | pitchfork | R, P, DGC, RT | <b>LAND SPILL - MEDIUM</b> |  |  |  |  | cross-linked polymer - particulate | 1 | blower | skiploader | R, W, SS | polypropylene - particulate | 2 | blower | skiploader | W, SS, DGC | sorbent clay - particulate | 2 | blower | skiploader | R, I, W, P, DGC | polypropylene - mat | 3 | throw | skiploader | DGC, RT | expanded mineral - particulate | 3 | blower | skiploader | R, I, W, P, DGC | polyurethane - mat | 4 | throw | skiploader | DGC, RT |
| SORBENT TYPE                       | RANK   | APPLICATION  | COLLECTION | LIMITATIONS     |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| <b>LAND SPILL - SMALL</b>          |  |              |            |                 |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| cross-linked polymer - particulate | 1  | shovel       | shovel     | R, W, SS        |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| cross-linked polymer - pillow      | 1  | throw        | pitchfork  | R, DGC, RT      |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| sorbent clay - particulate         | 2  | shovel       | shovel     | R, I, P         |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| wood fiber - pillow                | 3  | throw        | pitchfork  | R, P, DGC, RT   |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| treated wood fiber - pillow        | 3  | throw        | pitchfork  | DGC, RT         |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| foamed glass - pillow              | 4  | throw        | pitchfork  | R, P, DGC, RT   |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| <b>LAND SPILL - MEDIUM</b>         |  |              |            |                 |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| cross-linked polymer - particulate | 1  | blower       | skiploader | R, W, SS        |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| polypropylene - particulate        | 2  | blower       | skiploader | W, SS, DGC      |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| sorbent clay - particulate         | 2  | blower       | skiploader | R, I, W, P, DGC |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| polypropylene - mat                | 3  | throw        | skiploader | DGC, RT         |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| expanded mineral - particulate     | 3  | blower       | skiploader | R, I, W, P, DGC |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |
| polyurethane - mat                 | 4  | throw        | skiploader | DGC, RT         |            |             |                           |  |  |  |  |                                    |   |        |        |          |                               |   |       |           |            |                            |   |        |        |         |                     |   |       |           |               |                             |   |       |           |         |                       |   |       |           |               |                            |  |  |  |  |                                    |   |        |            |          |                             |   |        |            |            |                            |   |        |            |                 |                     |   |       |            |         |                                |   |        |            |                 |                    |   |       |            |         |

Continued...

## FW-CCP N&amp;A Coconut Cream Pie Flavor

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 Handling and storage

### Precautions for safe handling

|                          |  |
|--------------------------|--|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Prevent concentration in hollows and sumps.</li> <li>▶ <b>DO NOT allow clothing wet with material to stay in contact with skin</b></li> </ul>  |
| <b>Other information</b> | <p>Consider storage under inert gas.</p> <ul style="list-style-type: none"> <li>▶ Material is hygroscopic, i.e. absorbs moisture from the air. Keep containers well sealed in storage.</li> <li>▶ Store in original containers.</li> <li>▶ Keep containers securely sealed.</li> <li>▶ No smoking, naked lights or ignition sources.</li> <li>▶ Store in a cool, dry, well-ventilated area.</li> </ul> |

### Conditions for safe storage, including any incompatibilities

|                                |  |
|--------------------------------|--|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Metal can or drum</li> <li>▶ Packaging as recommended by manufacturer.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul>   |
| <b>Storage incompatibility</b> | <p>Glycerol:</p> <ul style="list-style-type: none"> <li>▶ reacts violently with strong oxidisers, acetic anhydride, alkali metal hydrides, calcium hypochlorite, calcium oxychloride, chlorine, chromic anhydride, chromium oxides, ethylene oxide, hydrogen peroxide, phosphorous triiodide, potassium chlorate, potassium permanganate, potassium peroxide, silver perchlorate, sodium hydride, sodium peroxide, sodium triiodide, sodium tetrahydroborate, is incompatible with strong acids, caustics, aliphatic amines, isocyanates, uranium fluoride</li> <li>▶ is able to polymerise above 145 C</li> <li>▶ Glycols and their ethers undergo violent decomposition in contact with 70% perchloric acid. This seems likely to involve formation of the glycol perchlorate esters (after scission of ethers) which are explosive, those of ethylene glycol and 3-chloro-1,2-propanediol being more powerful than glyceryl nitrate, and the former so sensitive that it explodes on addition of water.</li> </ul> <p>Alcohols</p> <ul style="list-style-type: none"> <li>▶ are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents.</li> <li>▶ reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen</li> <li>▶ react with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, dialkylzincs, dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium</li> <li>▶ should not be heated above 49 deg. C. when in contact with aluminium equipment</li> </ul> |

## SECTION 8 Exposure controls / personal protection

### Control parameters

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

| Source   | Ingredient | Material name                        | TWA           | STEL          | Peak          | Notes          |
|--|------------|--------------------------------------|---------------|---------------|---------------|----------------|
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | glycerol   | Glycerin (mist)- Total dust          | 15 mg/m3      | Not Available | Not Available | Not Available  |
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | glycerol   | Glycerin (mist)- Respirable fraction | 5 mg/m3       | Not Available | Not Available | Not Available  |
| US NIOSH Recommended Exposure Limits (RELs)          | glycerol   | Glycerin (mist)                      | Not Available | Not Available | Not Available | See Appendix D |

#### Emergency Limits

| Ingredient       | TEEL-1   | TEEL-2      | TEEL-3      |
|------------------|----------|-------------|-------------|
| propylene glycol | 30 mg/m3 | 1,300 mg/m3 | 7,900 mg/m3 |
| glycerol         | 45 mg/m3 | 180 mg/m3   | 1,100 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|------------|---------------|--------------|
|            |               |              |

Continued...

## FW-CCP N&amp;A Coconut Cream Pie Flavor

| Ingredient       | Original IDLH | Revised IDLH  |
|------------------|---------------|---------------|
| propylene glycol | Not Available | Not Available |
| glycerol         | Not Available | Not Available |

## Occupational Exposure Banding

| Ingredient       | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|------------------|-----------------------------------|----------------------------------|
| propylene glycol | E                                 | ≤ 0.1 ppm                        |

**Notes:**

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

## MATERIAL DATA

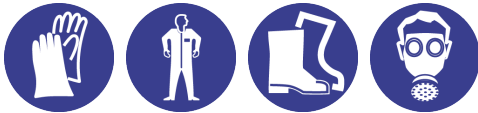
for propylene glycol:

Saturated vapour concentration @ 20 deg C.= 65.8 ppm, 204.6 mg/m<sup>3</sup>; i.e higher concentrations can only occur as aerosols or at higher temperatures.

Odour Threshold: Practically odourless.

A small number of individuals show skin irritation or sensitisation from repeated or prolonged exposure to propylene glycol. A workplace environmental exposure limit (WEEL) has been established by AIHA and is thought to be protective against systemic effects.

## Exposure controls

|   |   |
|---|---|
| <b>Appropriate engineering controls</b> | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</p>  |
| <b>Personal protection</b>              |    |
| <b>Eye and face protection</b>          | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>   |
| <b>Skin protection</b>                  | See Hand protection below   |
| <b>Hands/feet protection</b>            | <ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical 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.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Personal hygiene is a key element of effective hand care.</p> |
| <b>Body protection</b>                  | See Other protection below  |
| <b>Other protection</b>                 | <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ P.V.C apron.</li> <li>▶ Barrier cream.</li> <li>▶ Skin cleansing cream.</li> </ul>  |

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

FW-CCP N&A Coconut Cream Pie Flavor

| Material         | CPI |
|------------------|-----|
| NATURAL RUBBER   | C   |
| NATURAL+NEOPRENE | C   |
| NITRILE          | C   |

## Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES                      | A-AUS                | -                    | A-PAPR-AUS / Class 1   |

Continued...

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|            |   |
|------------|---|
| PE/EVAL/PE | C |
|------------|---|

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

|                |   |                 |            |
|----------------|---|-----------------|------------|
| up to 50 x ES  | - | A-AUS / Class 1 | -          |
| up to 100 x ES | - | A-2             | A-PAPR-2 ^ |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- ▶ The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- ▶ Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

## SECTION 9 Physical and chemical properties

### Information on basic physical and chemical properties

|   |                 |  |                   |
|---|-----------------|--|-------------------|
| <b>Appearance</b>                                   | Clear colorless |  |                   |
| <b>Physical state</b>                               | Liquid          | <b>Relative density (Water = 1)</b>            | 1.08              |
| <b>Odour</b>  | Characteristic  | <b>Partition coefficient n-octanol / water</b> | Not Available     |
| <b>Odour threshold</b>                              | Not Available   | <b>Auto-ignition temperature (°C)</b>          | Not Available     |
| <b>pH (as supplied)</b>                             | Not Available   | <b>Decomposition temperature</b>               | Not Available     |
| <b>Melting point / freezing point (°C)</b>          | Not Available   | <b>Viscosity (cSt)</b>                         | Not Available     |
| <b>Initial boiling point and boiling range (°C)</b> | Not Available   | <b>Molecular weight (g/mol)</b>                | Not Available     |
| <b>Flash point (°C)</b>                             | >93.00          | <b>Taste</b>                                   | Coconut cream pie |
| <b>Evaporation rate</b>                             | Not Available   | <b>Explosive properties</b>                    | Not Available     |
| <b>Flammability</b>                                 | Not Applicable  | <b>Oxidising properties</b>                    | Not Available     |
| <b>Upper Explosive Limit (%)</b>                    | Not Available   | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available     |
| <b>Lower Explosive Limit (%)</b>                    | Not Available   | <b>Volatile Component (%vol)</b>               | Not Available     |
| <b>Vapour pressure (kPa)</b>                        | Not Available   | <b>Gas group</b>                               | Not Available     |
| <b>Solubility in water</b>                          | Miscible        | <b>pH as a solution (%)</b>                    | Not Available     |
| <b>Vapour density (Air = 1)</b>                     | Not Available   | <b>VOC g/L</b>                                 | Not Available     |

## SECTION 10 Stability and reactivity

|                           |  |
|---------------------------|--|
| <b>Reactivity</b>         | See section 7  |
| <b>Chemical stability</b> | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |

Continued...

## FW-CCP N&amp;A Coconut Cream Pie Flavor

|   |               |
|---|---------------|
| <b>Possibility of hazardous reactions</b> | See section 7 |
| <b>Conditions to avoid</b>                | See section 7 |
| <b>Incompatible materials</b>             | See section 7 |
| <b>Hazardous decomposition products</b>   | See section 5 |

## SECTION 11 Toxicological information

## Information on toxicological effects

|                     |  |
|---------------------|--|
| <b>Inhaled</b>      | <p>Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.</p> <p>Exposure to aliphatic alcohols with more than 3 carbons may produce central nervous system effects such as headache, dizziness, drowsiness, muscle weakness, delirium, CNS depression, coma, seizure, and neurobehavioural changes. Symptoms are more acute with higher alcohols. Respiratory tract involvement may produce irritation of the mucosa, respiratory insufficiency, respiratory depression secondary to CNS depression, pulmonary oedema, chemical pneumonitis and bronchitis. Cardiovascular involvement may result in arrhythmias and hypotension.</p> <p>The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by inhalation". This is because of the lack of corroborating animal or human evidence. In the absence of such evidence, care should be taken nevertheless to ensure exposure is kept to a minimum and that suitable control measures be used, in an occupational setting to control vapours, fumes and aerosols.</p> <p>Inhalation hazard is increased at higher temperatures.</p> <p>Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.</p>  |
| <b>Ingestion</b>    | <p>Ingestion of propylene glycol produced reversible central nervous system depression in humans following ingestion of 60 ml. Symptoms included increased heart-rate (tachycardia), excessive sweating (diaphoresis) and grand mal seizures in a 15 month child who ingested large doses (7.5 ml/day for 8 days) as an ingredient of vitamin preparation.</p> <p>Excessive repeated ingestions may cause hypoglycaemia (low levels of glucose in the blood stream) among susceptible individuals; this may result in muscular weakness, incoordination and mental confusion.</p> <p>Very high doses given during feeding studies to rats and dogs produce central nervous system depression (although one-third of that produced by ethanol), haemolysis and insignificant kidney changes.</p> <p>The toxic effects of glycols (dihydric alcohols), following ingestion are similar to those of alcohol, with depression of the central nervous system (CNS), nausea, vomiting and degenerative changes in liver and kidney.</p> <p>Effects on the nervous system characterise over-exposure to higher aliphatic alcohols. These include headache, muscle weakness, giddiness, ataxia, (loss of muscle coordination), confusion, delirium and coma. Gastrointestinal effects may include nausea, vomiting and diarrhoea. In the absence of effective treatment, respiratory arrest is the most common cause of death in animals acutely poisoned by the higher alcohols.</p> <p>The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).</p>   |
| <b>Skin Contact</b> | <p>The material may accentuate any pre-existing dermatitis condition</p> <p>Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.</p> <p>A single prolonged exposure is not likely to result in the material being absorbed in harmful amounts. However the material may be absorbed in potentially harmful amounts when applied in large quantities to severe burns (second or third degree) over large areas of the body as part of a cream, other topical application or by prolonged contact with clothing accidentally wetted by the material. Absorption under such circumstances can elevated serum osmolality and may result in osmotic shock.</p> <p>Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p> <p>The material produces moderate skin irritation; evidence exists, or practical experience predicts, that the material either</p> <ul style="list-style-type: none"> <li>▸ produces moderate inflammation of the skin in a substantial number of individuals following direct contact, and/or</li> <li>▸ produces significant, but moderate, inflammation when applied to the healthy intact skin of animals (for up to four hours), such inflammation being present twenty-four hours or more after the end of the exposure period.</li> </ul> <p>Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.</p> |



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|                |  |
|----------------|--|
| <b>Eye</b>     | Irritation of the eyes may produce a heavy secretion of tears (lachrymation).<br>Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.   |
| <b>Chronic</b> | Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.<br>Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.<br>Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. As a rule the material produces, or contains a substance which produces severe lesions. Such damage may become apparent following direct application in subchronic (90 day) toxicity studies or following sub-acute (28 day) or chronic (two-year) toxicity tests.<br>Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. |

|  |   |   |
|--|---|---|
| <b>FW-CCP N&amp;A Coconut Cream Pie Flavor</b> | <b>TOXICITY</b>   | <b>IRRITATION</b>   |
|  | Not Available   | Not Available   |
| <b>propylene glycol</b>                        | <b>TOXICITY</b>   | <b>IRRITATION</b>   |
|  | Dermal (rabbit) LD50: 11890 mg/kg <sup>[2]</sup>  | Eye (rabbit): 100 mg - mild                                     |
|  | Inhalation(Rat) LC50; >44.9 mg/L4h <sup>[2]</sup>   | Eye (rabbit): 500 mg/24h - mild                                 |
|  | Oral(Rat) LD50; 20000 mg/kg <sup>[2]</sup>  | Eye: no adverse effect observed (not irritating) <sup>[1]</sup> |
|  |   | Skin(human):104 mg/3d Intermit Mod                              |
|  | Skin(human):500 mg/7days mild   |   |
|  | Skin: no adverse effect observed (not irritating) <sup>[1]</sup>  |   |
| <b>glycerol</b>                                | <b>TOXICITY</b>   | <b>IRRITATION</b>   |
|  | dermal (guinea pig) LD50: 58500 mg/kg <sup>[1]</sup>  | Not Available   |
|  | Oral(Mouse) LD50; 4090 mg/kg <sup>[2]</sup>   |   |
| <b>Legend:</b>                                 | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. * Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |   |

|   |  |
|---|--|
| <b>PROPYLENE GLYCOL</b>   | The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.   |
| <b>GLYCEROL</b>   | For glycerol:<br><b>Acute toxicity:</b> Glycerol is of a low order of acute oral and dermal toxicity with LD50 values in excess of 4000 mg/kg bw. At very high dose levels, the signs of toxicity include tremor and hyperaemia of the gastro-intestinal -tract. Skin and eye irritation studies indicate that glycerol has low potential to irritate the skin and the eye. The available human and animal data, together with the very widespread potential for exposure and the absence of case reports of sensitisation, indicate that glycerol is not a skin sensitiser.<br><b>Repeat dose toxicity:</b> Repeated oral exposure to glycerol does not induce adverse effects other than local irritation of the gastro-intestinal tract.  |
| <b>FW-CCP N&amp;A Coconut Cream Pie Flavor &amp; GLYCEROL</b>         | Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. |
| <b>FW-CCP N&amp;A Coconut Cream Pie Flavor &amp; PROPYLENE GLYCOL</b> | The acute oral toxicity of propylene glycol is very low, and large quantities are required to cause perceptible health damage in humans. Serious toxicity generally occurs only at plasma concentrations over 1 g/L, which requires extremely high intake over a relatively short period of time. It would be nearly impossible to reach toxic levels by consuming foods or supplements, which contain at most 1 g/kg of PG. Cases of propylene glycol poisoning are usually related to either inappropriate intravenous administration or accidental ingestion of large quantities by children. The potential for long-term oral toxicity is also low.  |

|                                      |   |                               |   |
|--------------------------------------|---|-------------------------------|---|
| <b>Acute Toxicity</b>                | ✘ | <b>Carcinogenicity</b>        | ✘ |
| <b>Skin Irritation/Corrosion</b>     | ✔ | <b>Reproductivity</b>         | ✘ |
| <b>Serious Eye Damage/Irritation</b> | ✔ | <b>STOT - Single Exposure</b> | ✔ |

## FW-CCP N&amp;A Coconut Cream Pie Flavor

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Respiratory or Skin sensitisation | ✗ | STOT - Repeated Exposure | ✗ |
| Mutagenicity                      | ✗ | Aspiration Hazard        | ✗ |

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
 ✓ – Data available to make classification

## SECTION 12 Ecological information

## Toxicity

| FW-CCP N&A Coconut Cream Pie Flavor | Endpoint  | Test Duration (hr) | Species                       | Value         | Source        |
|-------------------------------------|---|--------------------|-------------------------------|---------------|---------------|
|                                     | Not Available   | Not Available      | Not Available                 | Not Available | Not Available |
| propylene glycol                    | Endpoint  | Test Duration (hr) | Species                       | Value         | Source        |
|                                     | NOEC(ECx)   | 336h               | Algae or other aquatic plants | <5300mg/l     | 1             |
|                                     | EC50  | 72h                | Algae or other aquatic plants | 19300mg/l     | 2             |
|                                     | LC50  | 96h                | Fish                          | >10000mg/l    | 2             |
|                                     | EC50  | 48h                | Crustacea                     | >114.4mg/L    | 4             |
|                                     | EC50  | 96h                | Algae or other aquatic plants | 19000mg/l     | 2             |
| glycerol                            | Endpoint  | Test Duration (hr) | Species                       | Value         | Source        |
|                                     | EC0(ECx)  | 24h                | Crustacea                     | >500mg/l      | 1             |
|                                     | LC50  | 96h                | Fish                          | 885mg/l       | 2             |
| <b>Legend:</b>                      | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                    |                               |               |               |

Propylene glycol is known to exert high levels of biochemical oxygen demand (BOD) during degradation in surface waters. This process can adversely affect aquatic life by consuming oxygen needed by aquatic organisms for survival. Large quantities of dissolved oxygen (DO) in the water column are consumed when microbial populations decompose propylene glycol.

Sufficient dissolved oxygen levels in surface waters are critical for the survival of fish, macro-invertebrates, and other aquatic organisms.

For glycerol

log Kow : -2.66- -2.47

BOD 5: 0.617-0.87,31-51%

COD : 1.16,82-95%

ThOD : 1.217-1.56

Completely biodegradable.

Environmental fate:

Based on the relevant physical-chemical properties and the fact that glycerol is readily biodegradable, glycerol will partition primarily to water.

Biodegradability: Glycerol is considered to be readily biodegradable in the aquatic environment. Pre-adapted microorganisms can degrade glycerol rapidly under both aerobic and anaerobic conditions.

**DO NOT discharge into sewer or waterways.**

## Persistence and degradability

| Ingredient       | Persistence: Water/Soil | Persistence: Air |
|------------------|-------------------------|------------------|
| propylene glycol | LOW                     | LOW              |
| glycerol         | LOW                     | LOW              |

## Bioaccumulative potential

| Ingredient       | Bioaccumulation      |
|------------------|----------------------|
| propylene glycol | LOW (BCF = 1)        |
| glycerol         | LOW (LogKOW = -1.76) |

## Mobility in soil

| Ingredient       | Mobility       |
|------------------|----------------|
| propylene glycol | HIGH (KOC = 1) |
| glycerol         | HIGH (KOC = 1) |

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## SECTION 13 Disposal considerations

## Waste treatment methods

|                                     |  |
|-------------------------------------|--|
| <b>Product / Packaging disposal</b> | <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> <li>▸ Reduction</li> <li>▸ Reuse</li> <li>▸ Recycling</li> <li>▸ Disposal (if all else fails)</li> </ul> <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</p> <ul style="list-style-type: none"> <li>▸ <b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li> <li>▸ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▸ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>▸ Where in doubt contact the responsible authority.</li> <li>▸ Recycle wherever possible or consult manufacturer for recycling options.</li> <li>▸ Consult State Land Waste Authority for disposal.</li> <li>▸ Bury or incinerate residue at an approved site.</li> <li>▸ Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |
|-------------------------------------|--|

## SECTION 14 Transport information

## Labels Required

|                         |    |
|-------------------------|----|
| <b>Marine Pollutant</b> | NO |
|-------------------------|----|

**Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Transport in bulk according to Annex II of MARPOL and the IBC code**

Not Applicable

**Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code**

| Product name     | Group         |
|------------------|---------------|
| propylene glycol | Not Available |
| glycerol         | Not Available |

**Transport in bulk in accordance with the ICG Code**

| Product name     | Ship Type     |
|------------------|---------------|
| propylene glycol | Not Available |
| glycerol         | Not Available |

## SECTION 15 Regulatory information

## Safety, health and environmental regulations / legislation specific for the substance or mixture

**propylene glycol is found on the following regulatory lists**

|  |  |
|--|--|
| US AIHA Workplace Environmental Exposure Levels (WEELs)      | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory                              |
| US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) | US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL) |
| US DOE Temporary Emergency Exposure Limits (TEELs)           | US TSCA Chemical Substance Inventory - Interim List of Active Substances                           |
| US EPA Integrated Risk Information System (IRIS)             |  |

**glycerol is found on the following regulatory lists**

|   |  |
|---|--|
| US - Massachusetts - Right To Know Listed Chemicals | US OSHA Permissible Exposure Limits (PELs) Table Z-1                     |
| US DOE Temporary Emergency Exposure Limits (TEELs)  | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory    |
| US NIOSH Recommended Exposure Limits (RELs)         | US TSCA Chemical Substance Inventory - Interim List of Active Substances |

## Federal Regulations

Continued...

## FW-CCP N&amp;A Coconut Cream Pie Flavor

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Section 311/312 hazard categories**

|  |     |
|--|-----|
| Flammable (Gases, Aerosols, Liquids, or Solids)              | No  |
| Gas under pressure   | No  |
| Explosive  | No  |
| Self-heating   | No  |
| Pyrophoric (Liquid or Solid)                                 | No  |
| Pyrophoric Gas   | No  |
| Corrosive to metal   | No  |
| Oxidizer (Liquid, Solid or Gas)                              | No  |
| Organic Peroxide   | No  |
| Self-reactive  | No  |
| In contact with water emits flammable gas                    | No  |
| Combustible Dust   | No  |
| Carcinogenicity  | No  |
| Acute toxicity (any route of exposure)                       | No  |
| Reproductive toxicity  | No  |
| Skin Corrosion or Irritation                                 | Yes |
| Respiratory or Skin Sensitization                            | No  |
| Serious eye damage or eye irritation                         | Yes |
| Specific target organ toxicity (single or repeated exposure) | No  |
| Aspiration Hazard  | No  |
| Germ cell mutagenicity                                       | No  |
| Simple Asphyxiant  | No  |
| Hazards Not Otherwise Classified                             | No  |

**US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**

None Reported

**State Regulations****US. California Proposition 65**

None Reported

**National Inventory Status**

| National Inventory                               | Status                          |
|--|---------------------------------|
| Australia - AIIIC / Australia Non-Industrial Use | Yes                             |
| Canada - DSL                                     | Yes                             |
| Canada - NDSL                                    | No (propylene glycol; glycerol) |
| China - IECSC                                    | Yes                             |
| Europe - EINEC / ELINCS / NLP                    | Yes                             |
| Japan - ENCS                                     | Yes                             |
| Korea - KECI                                     | Yes                             |
| New Zealand - NZIoC                              | Yes                             |
| Philippines - PICCS                              | Yes                             |
| USA - TSCA                                       | Yes                             |
| Taiwan - TCSI                                    | Yes                             |
| Mexico - INSQ                                    | Yes                             |
| Vietnam - NCI                                    | Yes                             |
| Russia - FBEPH                                   | Yes                             |

Continued...

## FW-CCP N&amp;A Coconut Cream Pie Flavor

| National Inventory | Status  |
|--------------------|---|
| <b>Legend:</b>     | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

## SECTION 16 Other information

|               |            |
|---------------|------------|
| Revision Date | 11/11/2021 |
| Initial Date  | 11/12/2021 |

## Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average  
 PC—STEL: Permissible Concentration-Short Term Exposure Limit  
 IARC: International Agency for Research on Cancer  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 STEL: Short Term Exposure Limit  
 TEEL: Temporary Emergency Exposure Limit,  
 IDLH: Immediately Dangerous to Life or Health Concentrations  
 ES: Exposure Standard  
 OSF: Odour Safety Factor  
 NOAEL :No Observed Adverse Effect Level  
 LOAEL: Lowest Observed Adverse Effect Level  
 TLV: Threshold Limit Value  
 LOD: Limit Of Detection  
 OTV: Odour Threshold Value  
 BCF: BioConcentration Factors  
 BEI: Biological Exposure Index  
 AIIC: Australian Inventory of Industrial Chemicals  
 DSL: Domestic Substances List  
 NDSL: Non-Domestic Substances List  
 IECSC: Inventory of Existing Chemical Substance in China  
 EINECS: European INventory of Existing Commercial chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 NLP: No-Longer Polymers  
 ENCS: Existing and New Chemical Substances Inventory  
 KECl: Korea Existing Chemicals Inventory  
 NZIoC: New Zealand Inventory of Chemicals  
 PICCS: Philippine Inventory of Chemicals and Chemical Substances  
 TSCA: Toxic Substances Control Act  
 TCSI: Taiwan Chemical Substance Inventory  
 INSQ: Inventario Nacional de Sustancias Químicas  
 NCI: National Chemical Inventory  
 FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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