



# FaST 365 and MP (NA)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/19/2017

Revision date: 12/12/2017

Supersedes: 10/19/2017

Version: 1.1

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : FaST 365 and MP (NA)

#### 1.2. Recommended use and restrictions on use

Recommended use : Industrial use, Professional use, Detergent

#### 1.3. Supplier

Tennant  
701 North Lilac Drive  
P.O. Box 1452  
Minneapolis, - MN 55440-1452  
T +1 (763) 540-1471 (day)/+1 (612) 834-0118

#### 1.4. Emergency telephone number

Emergency number : + 1-703-527-3887 (Chemtrec International – 24 Hrs)

| Country                  | Organisation/Company | Address | Emergency number           | Remark |
|--------------------------|----------------------|---------|----------------------------|--------|
| UNITED STATES OF AMERICA | CHEMTREC USA         |         | +1 (800) 424-9300 (24 hrs) |        |

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Serious eye damage/eye irritation, Category 1 Causes serious eye damage.

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : Causes serious eye damage.  
Precautionary statements (GHS-US) : Wear protective gloves, eye protection.  
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, a doctor

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name  | Product identifier    | %      | GHS-US classification  |
|---|-----------------------|--------|--|
| Ethoxylated alcohol                               | (CAS-No.) Proprietary | 5 - 10 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318                          |
| Alcohols, C9-11, branched and linear, ethoxylated | (CAS-No.) 68439-46-3  | 3 - 5  | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318<br>Aquatic Acute 2, H401 |
| Sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate   | (CAS-No.) 14960-06-6  | 1 - 3  | Skin Irrit. 2, H315  |

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| Name                        | Product identifier  | %       | GHS-US classification  |
|-----------------------------|---------------------|---------|--|
| Dodecyltrimethylamine oxide | (CAS-No.) 1643-20-5 | 0.1 - 3 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand. Call a doctor if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : Wash skin with plenty of water. Remove contaminated clothes. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting without medical advice. Call a POISON CENTER/doctor if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after eye contact : Serious damage to eyes.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

- Fire hazard : Presents no particular fire or explosion hazard.
- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

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

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : Prevent fire fighting water from entering the environment.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8 : "Exposure-controls/personal protection". Concerning disposal elimination after cleaning, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

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Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use.  
Incompatible products : Strong oxidizing agents.  
Storage temperature : < 37.5 °C  
Heat and ignition sources : Keep away from heat and direct sunlight.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate (14960-06-6)

Not applicable

#### Ethoxylated alcohol (Proprietary)

Not applicable

#### Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)

Not applicable

#### Dodecyldimethylamine oxide (1643-20-5)

Not applicable

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Gloves. Safety glasses.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

| Type                                  | Material   | Permeation        | Thickness (mm) | Penetration |
|---------------------------------------|--|-------------------|----------------|-------------|
| Reusable gloves,<br>Disposable gloves | Nitrile rubber (NBR),<br>Polyvinylchloride (PVC) | 6 (> 480 minutes) | ≥0.11          |             |

#### Eye protection:

Safety glasses. DIN EN 166

| Type           | Use     | Characteristics |
|----------------|---------|-----------------|
| Safety glasses | Droplet |                 |

#### Skin and body protection:

Wear suitable protective clothing. CEN : EN 340; EN 369; EN 465. EN 13034

#### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. EN 143

#### Personal protective equipment symbol(s):



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|  |                               |
|--|-------------------------------|
| Physical state                             | : Liquid                      |
| Colour                                     | : amber                       |
| Odour                                      | : No fragrance added          |
| Odour threshold                            | : No data available           |
| pH   | : 6.5 - 8.5 (Concentrate)     |
| pH solution                                | : 6.5 - 8.5 (As diluted)      |
| Melting point                              | : 0 °C                        |
| Freezing point                             | : No data available           |
| Boiling point                              | : 100 °C                      |
| Flash point                                | : > 93.3 °C                   |
| Relative evaporation rate (butylacetate=1) | : No data available           |
| Flammability (solid, gas)                  | : No data available           |
| Vapour pressure                            | : No data available           |
| Relative vapour density at 20 °C           | : No data available           |
| Relative density                           | : No data available           |
| Density                                    | : 1 kg/l                      |
| Relative gas density                       | : Heavier than air            |
| Solubility                                 | : Soluble in water.           |
| Log Pow                                    | : No data available           |
| Auto-ignition temperature                  | : No data available           |
| Decomposition temperature                  | : No data available           |
| Viscosity, kinematic                       | : 90 - 110 mm <sup>2</sup> /s |
| Viscosity, dynamic                         | : No data available           |
| Explosive limits                           | : No data available           |
| Explosive properties                       | : No data available           |
| Oxidising properties                       | : No data available           |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Protect from freezing.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Keep away from heat and direct sunlight.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Combustion generates: Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| <b>Ethoxylated alcohol (Proprietary)</b>                              |                      |
|---|----------------------|
| LD50 oral rat   | > 700 - 1700 mg/kg   |
| ATE US (oral)   | 700 mg/kg bodyweight |
| <b>Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)</b> |                      |
| LD50 oral rat   | > 300 - 2000 mg/kg   |
| ATE US (oral)   | 300 mg/kg bodyweight |
| <b>Dodecylidimethylamine oxide (1643-20-5)</b>                        |                      |
| ATE US (oral)   | 500 mg/kg bodyweight |

|                                    |   |
|------------------------------------|---|
| Skin corrosion/irritation          | : Not classified<br>pH: 6.5 - 8.5 (Concentrate)             |
| Serious eye damage/irritation      | : Causes serious eye damage.<br>pH: 6.5 - 8.5 (Concentrate) |
| Respiratory or skin sensitisation  | : Not classified  |
| Germ cell mutagenicity             | : Not classified  |
| Carcinogenicity                    | : Not classified  |
| Reproductive toxicity              | : Not classified  |
| STOT-single exposure               | : Not classified  |
| STOT-repeated exposure             | : Not classified  |
| Aspiration hazard                  | : Not classified  |
| Viscosity, kinematic               | : 90 - 110 mm <sup>2</sup> /s                               |
| Symptoms/effects after eye contact | : Serious damage to eyes.                                   |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

| <b>Ethoxylated alcohol (Proprietary)</b>                              |               |
|---|---------------|
| LC50 fish 1   | > 10 - 100    |
| EC50 Daphnia 1  | > 10 - 100    |
| <b>Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)</b> |               |
| LC50 fish 1   | > 1 - 10 mg/l |
| EC50 Daphnia 1  | > 1 - 10 mg/l |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

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|                           |  |
|---------------------------|--|
| Additional information    | : Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. |
| Ecology - waste materials | : Avoid release to the environment.  |

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated

#### Transportation of Dangerous Goods

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Sodium N-(2-carboxyethyl)-N-dodecyl- $\beta$ -alaninate (14960-06-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Ethoxylated alcohol (Proprietary)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

##### Dodecyldimethylamine oxide (1643-20-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

##### Sodium N-(2-carboxyethyl)-N-dodecyl- $\beta$ -alaninate (14960-06-6)

Listed on the Canadian DSL (Domestic Substances List)

##### Ethoxylated alcohol (Proprietary)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

##### Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)

Listed on the Canadian DSL (Domestic Substances List)

##### Dodecyldimethylamine oxide (1643-20-5)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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| Component   | State or local regulations |
|---|----------------------------|
| Alcohols, C9-11, branched and linear, ethoxylated(68439-46-3)       |                            |
| Ethoxylated alcohol(Proprietary)                                    |                            |
| Sodium N-(2-carboxyethyl)-N-dodecyl- $\beta$ -alaninate(14960-06-6) |                            |
| Dodecyltrimethylamine oxide(1643-20-5)                              |                            |

### SECTION 16: Other information

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|                   |   |
|-------------------|---|
| Revision date     | : 12/12/2017  |
| Data sources      | : according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830. according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations.   |
| Other information | : REACH Disclaimer:<br>This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). <b>DISCLAIMER OF LIABILITY</b> The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. |

Full text of H-statements:

|      |  |
|------|--|
| H302 | Harmful if swallowed.                            |
| H315 | Causes skin irritation.                          |
| H318 | Causes serious eye damage.                       |
| H400 | Very toxic to aquatic life.                      |
| H401 | Toxic to aquatic life                            |
| H411 | Toxic to aquatic life with long lasting effects. |

Abbreviations and acronyms:

|       |   |
|-------|---|
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| PBT   | Persistent Bioaccumulative Toxic  |
| vPvB  | Very Persistent and Very Bioaccumulative  |
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Dangerous Goods  |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| SDS   | Safety Data Sheet   |
| CAS   | CAS (Chemical Abstracts Service) number   |
|       | EG-nr.: EINECS- en ELINCS-number  |
|       | EINECS: European Inventory of Existing Commercial Substances                                      |
| GHS   | GHS: Globally Harmonized System of Classification and Labelling of Chemicals                      |

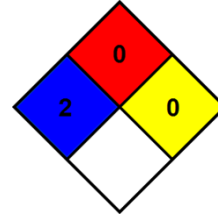
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- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.
- Hazard Rating
- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 0 Minimal Hazard - Materials that will not burn
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : B  
B - Safety glasses, Gloves



### Indication of changes:

| Section | Changed item  | Change | Comments |
|---------|---------------|--------|----------|
|         | Supersedes    | Added  |          |
|         | Revision date | Added  |          |
|         | pH solution   | Added  |          |

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*