



FaST 665 and MPD (NA)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-19-2017

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
 Product name : FaST 665 and MPD (NA)
 Type of product : Detergent

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
Canada	Canada: CANUTEC		+ 1 (613) - 996-6666	

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Serious eye damage/eye irritation, Category 1

H318

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA)

:



Signal word (GHS-CA)

: Danger

Hazard statements (GHS-CA)

: H318 - Causes serious eye damage.

Precautionary statements (GHS-CA)

: P280 - Wear protective gloves, eye protection.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 - Immediately call a POISON CENTER, a doctor.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
Ethoxylated alcohol		(CAS-No.) Proprietary	5 - 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 3, H402
Alcohols, C9-11, branched and linear, ethoxylated		(CAS-No.) 68439-46-3	3 - 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 2, H401

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
Dodecyldimethylamine oxide		(CAS-No.) 1643-20-5	0.1 - 3	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 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 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.
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.

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

Symptoms/effects after eye contact	: Serious damage to eyes.
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4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Sand.
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5.2. Unsuitable extinguishing media

Unsuitable extinguishing media	: Do not use a heavy water stream.
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5.3. Specific hazards arising from the hazardous product

Fire hazard	: Presents no particular fire or explosion hazard.
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5.4. 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

No additional information available

6.2. Methods and materials 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.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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.
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.
Heat and ignition sources	: Keep away from heat and direct sunlight.
Storage temperature	: < 37.5 °C

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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, Disposable gloves	Nitrile rubber (NBR), 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):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: dark blue
Odour	: No fragrance added
Odour threshold	: No data available
pH	: 6.5 - 8.5 (Concentrate)
pH solution	: 6.5 - 8.5 (As diluted)
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: 0 °C
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: > 93.3 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative density	: No data available
Density	: 1 kg/l
Relative gas density	: Heavier than air

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Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: 90 - 110 mm²/s
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Protect from freezing.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Keep away from heat and direct sunlight.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: Combustion generates: Carbon oxides (CO, CO ₂).

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

Ethoxylated alcohol (Proprietary)

LD50 oral rat	> 700 - 1700 mg/kg
ATE CA (oral)	700 mg/kg bodyweight

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

LD50 oral rat	> 300 - 2000 mg/kg
ATE CA (oral)	300 mg/kg bodyweight

Dodecyltrimethylamine oxide (1643-20-5)

ATE CA (oral)	500 mg/kg bodyweight
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Skin corrosion/irritation	: Not classified pH: 6.5 - 8.5 (Concentrate)
Serious eye damage/irritation	: Causes serious eye damage. pH: 6.5 - 8.5 (Concentrate)
Respiratory or skin sensitization	: 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

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Viscosity, kinematic	90 - 110 mm²/s
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Symptoms/effects after eye contact	: Serious damage to eyes.
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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.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

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Ethoxylated alcohol (Proprietary)

LC50 fish 1	> 10 - 100
EC50 Daphnia 1	> 10 - 100
EC50 72h algae (1)	> 10 - 100 mg/l

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

LC50 fish 1	> 1 - 10 mg/l
EC50 Daphnia 1	> 1 - 10 mg/l
EC50 72h algae (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

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

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

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

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)

Dodecyltrimethylamine oxide (1643-20-5)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

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

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Dodecyldimethylamine oxide (1643-20-5)

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

SECTION 16: Other information

SDS Major/Minor : None

Date of issue : 10-19-2017

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:
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). **DISCLAIMER OF LIABILITY** 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
H402	Harmful 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

SDS Canada (GHS)

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