

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : CITRUS DETERGENT
Product code : 778

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Detergent
Recommended use : Laundry
Restrictions on use : For professional use only

1.3. Supplier

UNX-Christeyns, LLC
707 E Arlington Blvd.
Greenville, NC 27858
USA
T 252-756-8616 / 800.869.6171
www.unxchristeyns.com - info@unxchristeyns.com

1.4. Emergency telephone number

Emergency number : VELOCITY EHS (800) 255-3924 (24 HOURS)
(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Acute toxicity (dermal) Category 4	H312	Harmful in contact with skin
Acute toxicity (inhalation) Category 4	H332	Harmful if inhaled
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Full text of H statements : see section 16		

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage

CITRUS DETERGENT

Safety Data Sheet

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

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235 - Store in a well-ventilated place. Keep cool.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
P405 - Store locked up.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Alkyl(C10-16)benzenesulfonic acid	CAS-No.: 68584-22-5	5 – 30
(2-Methoxymethylethoxy)propanol	CAS-No.: 34590-94-8	1-10
Alcohols (c12-15 Ln. Saturated) Ethoxylate	CAS-No.: 68131-39-5	1-10
Benzyl Alcohol	CAS-No.: 100-51-6	1-10

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.
First-aid measures after skin contact : Wash off immediately with plenty of water. Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse.
First-aid measures after eye contact : Get medical advice/attention. In case of eye contact, immediately rinse with clean water for 10-15 minutes.
First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

CITRUS DETERGENT

Safety Data Sheet

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

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

Potential Adverse human health effects and symptoms : Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin.

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 : Dry chemical, CO2, or water spray or regular foam.
Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.
. Wear self-contained breathing apparatus.
. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : 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

No additional information available.

6.3. Methods and material for containment and cleaning up

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

CITRUS DETERGENT

Safety Data Sheet

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

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store in a closed container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(2-Methoxymethylethoxy)propanol (34590-94-8)

USA - ACGIH - Occupational Exposure Limits

Local name	Dipropylene glycol methyl ether (DPGME)
ACGIH OEL TWA	100 ppm
ACGIH OEL STEL	150 ppm
Remark (ACGIH)	TLV® Basis: Liver & CNS eff
Regulatory reference	ACGIH 2024

USA - OSHA - Occupational Exposure Limits

Local name	Dipropylene glycol methyl ether
OSHA PEL TWA	600 mg/m ³
	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

USA - NIOSH - Occupational Exposure Limits

NIOSH REL (TWA)	600 mg/m ³
	100 ppm
NIOSH REL (STEL)	900 mg/m ³
	150 ppm

Benzyl Alcohol (100-51-6)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	10 ppm
---------------	--------

USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA	20 ppm
--------------	--------

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves.

Hand protection:

Wear suitable gloves resistant to chemical penetration

CITRUS DETERGENT

Safety Data Sheet

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

Eye protection:

Chemical goggles or face shield

Personal protective equipment symbol(s):



Other information:

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Amber
Odor	: No data available
Odor threshold	: No data available
pH	: 1.5 ± 0.5
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing 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

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

CITRUS DETERGENT

Safety Data Sheet

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

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Harmful in contact with skin.
Acute toxicity (inhalation) : Harmful if inhaled.

CITRUS DETERGENT

ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

(2-Methoxymethylethoxy)propanol (34590-94-8)

LD50 oral rat	5.35 g/kg
LD50 dermal rabbit	9.5 g/kg
ATE US (oral)	5350 mg/kg body weight
ATE US (dermal)	9500 mg/kg body weight

Alcohols (c12-15 Ln. Saturated) Ethoxylate (68131-39-5)

LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rabbit	2000 mg/kg

Benzyl Alcohol (100-51-6)

LD50 oral rat	1230 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 Inhalation - Rat [ppm]	8000 ppm/4h

Skin corrosion/irritation : Causes skin irritation.
pH: 1.5 ± 0.5
Serious eye damage/irritation : Causes serious eye damage.
pH: 1.5 ± 0.5
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

CITRUS DETERGENT

Safety Data Sheet

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

Alcohols (c12-15 Ln. Saturated) Ethoxylate (68131-39-5)

NOAEL (oral,rat,90 days)	≥ 1000 mg/kg body weight Animal: rat. Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
--------------------------	---

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

Alcohols (c12-15 Ln. Saturated) Ethoxylate (68131-39-5)

LC50 - Fish [1]	3.3 mg/l Source: ECOTOX
EC50 - Crustacea [1]	1.2 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	1.2 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [2]	1.4 mg/l Test organisms (species): Daphnia magna

Benzyl Alcohol (100-51-6)

LC50 - Fish [1]	Lepomis macrochirus (Bluegill) - 10 mg/l - 96 h
-----------------	---

12.2. Persistence and degradability

CITRUS DETERGENT

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

(2-Methoxymethylethoxy)propanol (34590-94-8)

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

Alkyl(C10-16)benzenesulfonic acid (68584-22-5)

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

Alcohols (c12-15 Ln. Saturated) Ethoxylate (68131-39-5)

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

Benzyl Alcohol (100-51-6)

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

12.3. Bioaccumulative potential

Benzyl Alcohol (100-51-6)

Bioaccumulative potential	This product is readily biodegradable.
---------------------------	--

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

CITRUS DETERGENT

Safety Data Sheet

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


SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of this material and its container at hazardous or special waste collection point.
Product/Packaging disposal recommendations : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT

DOT	
14.1. UN number	1760
14.2. Proper Shipping Name	Corrosive liquids, n.o.s. (Alkylbenzene Sulfonic Acid)
Transport document description	UN1760 Corrosive liquids, n.o.s. Alkylbenzene Sulfonic Acid, 8, II
14.3. Transport hazard class(es)	8
	
14.4. Packing group	II
14.5. Environmental hazards	Dangerous for the environment: No
No supplementary information available	

14.6. Special precautions for user

DOT
UN-No.(DOT) : UN1760

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
(2-Methoxymethylethoxy)propanol	34590-94-8	Present	Active	

CITRUS DETERGENT

Safety Data Sheet

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

Name	CAS-No.	Listing	Commercial status	Flags
Alkyl(C10-16)benzenesulfonic acid	68584-22-5	Not present	-	
Alcohols (c12-15 Ln. Saturated) Ethoxylate	68131-39-5	Present	Active	XU
Benzyl Alcohol	100-51-6	Not present	-	

15.2. International regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

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

Revision date : 7/22/2024

Full text of H-phrases	
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled

Safety Data Sheet (SDS), USA ML

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.