

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

### **ADVANTAGE**<sup>°</sup>

SECTION 1: Identification of the s	substance/mixture and of the company/undertaking
.1. Product identifier	
Product form	: Mixture
Product name	: Citri- Force- 3122, 3124
Product code	: 20184
I.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
1.3. Details of the supplier of the safe	ety data sheet
Advantage Chemical, LLC Temecula, CA, 92590 T 1-855-238-2436	
1.4. Emergency telephone number	
Emergency number	: 1-800-424-9300 ChemTrec
SECTION 2: Hazards identification	n
2.1. Classification of the substance of	or mixture
GHS-US classification	
Skin Corr. 1A	H314
Eye Corr. 1	H320
Full text of H-statements: see section 16	
2.2. Label elements	
GHS-US labelling	
Signal word (GHS-US) Hazard statements (GHS-US)	GHS05 : Danger : H314 - Causes severe skin burns and eye damage
Hazard statements (GHS-US) Precautionary statements (GHS-US)	<ul> <li>H314 - Causes severe skin burns and eye damage H320 - Causes eye irritation</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray</li> </ul>
	<ul> <li>P264 - Wash hands, forearms and face thoroughly after handling</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to a licensed hazardous waste facility in accordance with state and local agencies</li> </ul>
No additional information available	N
2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS-US Not applicable	3)

Not applicable

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

#### 3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
disodium metasilicate	(CAS No) 6834-92-0	1 - 10	Skin Corr. 1A, H314
sodium hydroxide, conc=50%, aqueous solution	(CAS No) 1310-73-2	1 - 5	Skin Corr. 1A, H314
Diethylene glycol monobutyl ether	(CAS No) 112-34-5	0.5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311

Full text of H-statements: see section 16

Full text of 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 you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow breathing of fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash with water and soap. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and eff	fects, both acute and delayed
Symptoms/injuries after skin contact	Causes skin irritation.
Symptoms/injuries after eye contact	Causes eye damage.
4.3. Indication of any immediate medi	cal attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the s	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	tify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and person	ial protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin, eyes and clothing.
Hygiene measures	: Always wash hands after handling the product.
12/28/2021	EN (English) 2/8

## 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	: Keep only in original container in a cool well ventilated area. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage temperature	: 25 (5 - 42) °C
7.3. Specific end use(s)	

No additional information available

#### SECTION 8: Exposure controls/personal protection 8.1. **Control parameters** Citri- Force- 3122, 3124 ACGIH Not applicable OSHA Not applicable 2-butoxyethanol (111-76-2) ACGIH ACGIH TWA (ppm) 20 ppm ACGIH ACGIH STEL (ppm) 20 ppm OSHA Not applicable disodium metasilicate (6834-92-0) ACGIH Not applicable OSHA Not applicable sodium hydroxide, conc=50%, aqueous solution (1310-73-2) ACGIH Not applicable

OSHA		Not applicable	
8.2.	Exposure controls		
Persona	al protective equipment		: Avoid all unnecessary exposure.
Hand p	rotection		: Wear protective gloves.
Eye pro	tection		: Chemical goggles or safety glasses.
Skin an	d body protection		: Wear suitable protective clothing.

Skin and body protection	:	Wear suitable protective clothing.
Respiratory protection	:	Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties	
Physical state	: Liquid	
Colour	: Orange-yellow	
Odour	: characteristic	
Odour threshold	: No data available	
Η	>= 12.90	
Melting point	: No data available	
Freezing point	: <= 0 °C	
Boiling point	: >= 100 °C	
Flash point	: None	
Relative evaporation rate (butylacetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Explosive limits	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
/apour pressure	: No data available	
12/28/2021	EN (English)	3/8

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

Relative density	: No data available
Relative vapour density at 20 °C	<u>:</u> <=
Density	: >= 1.043 (1.033 - 1.05) g/ml :
Solubility	<ul> <li>Soluble in water.</li> <li>Water: Solubility in water of component(s) of the mixture :</li> <li>Butyl Carbitol: Complete • disodium metasilicate: &gt; 18 g/100ml • sodium hydroxide, conc=50%, aqueous solution: Complete</li> </ul>
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
VOC content	: <= 1 g/l
SECTION 10: Stability and read	tivity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Not established.	
10.3. Possibility of hazardous read	tions
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low terr	iperatures.
10.5. Incompatible materials	
Strong acids. Strong bases. Strong oxidiz	zers.
10.6. Hazardous decomposition pr	oducts
fume. Carbon monoxide. Carbon dioxide.	
SECTION 11: Toxicological info	ormation
11.1. Information on toxicological	

11.1. Information on toxicological effects

Acute toxicity

: Not classified

2-butoxyethanol (111-76-2)			
LD50 oral rat	530 mg/kg (1746 mg/kg bodyweight; Rat; Rat; Experimental value)		
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value,Rat; Experimental value)		
LD50 dermal rabbit	435 mg/kg bodyweight (435 mg/kg bodyweight; Rabbit; Rabbit; Experimental value,435 mg/kg bodyweight; Rabbit; Rabbit; Experimental value)		
LC50 inhalation rat (mg/l)	2.17 mg/l/4h (2.35 mg/l/4h; Rat; Rat; Experimental value; Experimental value,2.35 mg/l/4h; Rat; Rat; Experimental value; Experimental value)		
LC50 inhalation rat (ppm)	450-486,Rat		
ATE US (oral)	530.000 mg/kg bodyweight		
ATE US (dermal)	435.000 mg/kg bodyweight		
ATE US (vapours)	2.170 mg/l/4h		
ATE US (dust,mist)	2.170 mg/l/4h		
disodium metasilicate (6834-92-0)			
LD50 dermal rat	> 5000 mg/kg bodyweight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)		
Skin corrosion/irritation	: Causes severe skin burns and eye damage.		
	pH: >= 12.90		
Serious eye damage/irritation	: Causes eye damage.		
	pH: >= 12.90		

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

Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
2-butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.

## SECTION 12: Ecological information

12.1. Toxicity

2-butoxyethanol (111-76-2)		
LC50 fish 1	116 ppm (96 h; Cyprinodon variegatus; Nominal concentration)	
EC50 Daphnia 1	1700 mg/l (48 h; Daphnia sp.; Nominal concentration)	
LC50 fish 2	1341 ppm (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	1720 mg/l (24 h; Daphnia magna)	
TLM fish 1	100 - 1000,96 h; Pisces	
TLM other aquatic organisms 1	100 - 1000,96 h	
Threshold limit algae 1	900 mg/l (168 h; Scenedesmus quadricauda)	
Threshold limit algae 2	35 mg/l (192 h; Microcystis aeruginosa)	
disodium metasilicate (6834-92-0)		
LC50 fish 1	210 mg/l (96 h; Brachydanio rerio)	
EC50 Daphnia 1	216 mg/l (96 h; Daphnia magna; GLP)	
LC50 fish 2	2320 mg/l (96 h; Gambusia affinis)	
EC50 Daphnia 2	632 mg/l (96 h; Lymnaea sp.)	
Threshold limit algae 1	207 mg/l (72 h; Scenedesmus subspicatus; GLP)	

#### Persistence and degradability 12.2.

Citri- Force- 3122, 3124				
Persistence and degradability	Not established.			
2-butoxyethanol (111-76-2)				
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.			
Biochemical oxygen demand (BOD)	0.71 g O₂/g substance			
Chemical oxygen demand (COD)	2.20 g O₂/g substance			
ThOD	2.305 g O <sub>z</sub> /g substance			
BOD (% of ThOD)	0.31 % ThOD			
disodium metasilicate (6834-92-0)				
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.			
Biochemical oxygen demand (BOD)	Not applicable			
Chemical oxygen demand (COD)	Not applicable			
ThOD	Not applicable			
BOD (% of ThOD)	Not applicable			
sodium hydroxide, conc=50%, aqueous solution (1310-73-2)				
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.			
12/28/2021	EN (English)	5/8		

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

12.3. Bioaccumulative potential		
Citri- Force- 3122, 3124		
Bioaccumulative potential	Not established.	
2-butoxyethanol (111-76-2)		
Log Pow	0.81 (Experimental value; 25 °C, Experimental value; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
disodium metasilicate (6834-92-0)		
Bioaccumulative potential	Bioaccumulation: not applicable.	
sodium hydroxide, conc=50%, aqueous solution (1310-73-2)		
Bioaccumulative potential	Does not contain bioaccumulative component(s).	
12.4. Mobility in soil		
-		
2-butoxyethanol (111-76-2) Surface tension	0.027 N/m (25 °C)	
Surface tension	0.027 N/m (25 °C)	
12.5. Other adverse effects		
Effect on the global warming :	No known ecological damage caused by this product.	
Other information :	Avoid release to the environment.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste disposal recommendations :	Dispose of contents/containers in hazardous or special waste collection point, an approved	
	disposal plant, a licensed hazardous waste disposal contractor or authorized waste collection	
	site in accordance with local, regional and/or international regulation, except for empty clean containers which can be disposed of as non hazardous waste.	
Ecology - waste materials :	Avoid release to the environment.	
SECTION 14: Transport information		
Department of Transportation (DOT)		
Regulated		
UN3266 Corrosive liquid, inorganic, basic, n.o.s (So	odium hydroxide), 8, II	
Additional information		
Other information :	No supplementary information available.	
ADR		
No additional information available		
Transport by sea		
No additional information available		
Air transport		
No additional information available		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
2-butoxyethanol (111-76-2)		
Listed on the United States TSCA (Toxic Substan	ces Control Act) Inventory 100 % 2-butoxyethanol (N230 Certain Glycol Ethers)	
SARA Section 313 - Emission Reporting		
disodium metasilicate (6834-92-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
sodium hydroxide, conc=50%, aqueous solutio		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's	1000 lb	
List of Lists)		
12/28/2021	EN (English) 6/8	

Safety Data Sheet

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

### 15.2. International regulations

CANADA

No additional information available

**EU-Regulations** No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

**National regulations** No additional information available

### 15.3. US State regulations

### 2-butoxyethanol (111-76-2)

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

### sodium hydroxide, conc=50%, aqueous solution (1310-73-2)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information	
Revision date	: 12/28/2021

### Other information

: None.

Full text of H-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
Flam. Liq. 4	Flammable liquids, Category 4
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H320	Causes eye irritation

NFPA health hazard	2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard	: None
HMIS III 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

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

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