

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : METABUILT+
Product code : 155

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

Corrosive to metals Category 1	H290	May be corrosive to metals
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 1B	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation

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) : H290 - May be corrosive to metals
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H314 - Causes severe skin burns and eye damage

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Precautionary statements (GHS US)

H318 - Causes serious eye damage
H335 - May cause respiratory irritation
: P234 - Keep only in original container.
P260 - Do not breathe 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.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a poison center or doctor if you feel unwell.
P330 - Rinse mouth.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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	%
Sodium Carbonate	CAS-No.: 497-19-8	10-30
Sodium Metasilicate, Anhydrous	CAS-No.: 6834-92-0	10-30
Sodium Hydroxide	CAS-No.: 1310-73-2	7-13

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 : Rinse skin with plenty of water or shower.

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First-aid measures after eye contact	: Rinse cautiously with water for 15 minutes; Remove contact lenses, if present and easy to do. Continue rinsing. . Call a physician immediately.
First-aid measures after ingestion	: Call a poison center or doctor if you feel unwell.

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

Most Important Symptoms/Effects	: Serious damage to eyes.
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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. Carbon dioxide. Foam. Dry powder.
Unsuitable extinguishing media	: Do not use a water jet as this can spread the fire and may cause the splattering of corrosive liquid.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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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.
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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.
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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".
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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.
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6.4. Reference to other sections

For further information refer to section 13.

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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.

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

Sodium Carbonate (497-19-8)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	10 mg/m ³ Total dust; 5 mg/m ³ Respirable fraction
Sodium Hydroxide (1310-73-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL Ceiling	2 mg/m ³
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	2 mg/m ³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (Ceiling)	2 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : No additional information available.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves.

Eye protection:

Safety Glasses

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder.

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Color	: White
Odor	: No data available
Odor threshold	: No data available
pH	: 12 – 13 @ 1%
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

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Oxidizing agent. Strong acids. Combustible materials.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

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Acute toxicity (inhalation) : Harmful if inhaled.

Sodium Carbonate (497-19-8)

LD50 oral rat	2800 mg/kg body weight Animal: rat
LD50 oral	4090 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: other:
LD50 dermal	> 2000 mg/kg body weight
LC50 Inhalation - Rat (Dust/Mist)	1.2 mg/l Source: SIDS
ATE US (oral)	2800 mg/kg body weight
ATE US (dust, mist)	1.2 mg/l/4h

Sodium Metasilicate, Anhydrous (6834-92-0)

LD50 oral rat	1152 – 1349 mg/kg
ATE US (oral)	1152 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns.
pH: 12 – 13 @ 1%

Serious eye damage/irritation : Causes serious eye damage.
pH: 12 – 13 @ 1%

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

Sodium Hydroxide (1310-73-2)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Likely routes of exposure : Ingestion. Skin and eye contact. Inhalation.

Most Important Symptoms/Effects : Serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Sodium Carbonate (497-19-8)

LC50 - Fish [1]	300 mg/l 96 h Bluegill sunfish
EC50 - Crustacea [1]	200 – 227 mg/l 48 h Ceriodaphnia
EC50 96h - Algae [1]	242 mg/l Source: ECOTOX

Sodium Metasilicate, Anhydrous (6834-92-0)

LC50 - Fish [1]	210 mg/l 96 h
EC50 - Other aquatic organisms [1]	>
EC50 72h - Algae [1]	207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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12.2. Persistence and degradability

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Persistence and degradability	Not rapidly degradable
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Sodium Carbonate (497-19-8)

Persistence and degradability	Not rapidly degradable
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Sodium Hydroxide (1310-73-2)

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

Sodium Carbonate (497-19-8)

Bioaccumulative potential	No bioaccumulation.
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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

Regional legislation (waste)	:	Do not allow the product to contaminate any body of water. Refer to Section 8 for personal protection equipment.
Waste treatment methods	:	Avoid unauthorized disposal. Do not dump into any body of water. Comply with federal, state/provincial and local laws/regulations. Do not reuse empty containers.

SECTION 14: Transport information

In accordance with DOT

DOT

14.1. UN number

3262

14.2. Proper Shipping Name

Corrosive solid, basic, inorganic, n.o.s. ((SODIUM HYDROXIDE))

Transport document description

UN3262 Corrosive solid, basic, inorganic, n.o.s. (SODIUM HYDROXIDE), 8, II

14.3. Transport hazard class(es)

8



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DOT

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) : UN3262

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
Sodium Carbonate	497-19-8	Present	Active	
Sodium Metasilicate, Anhydrous	6834-92-0	Present	Active	
Sodium Hydroxide	1310-73-2	Not present	-	

15.2. International regulations

No additional information available

15.3. US State regulations

Sodium Metasilicate, Anhydrous (6834-92-0)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	No	Yes	Yes		

SECTION 16: Other information

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

Full text of H-phrases

H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage

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Full text of H-phrases	
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation

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.