SAFETY DATA SHEET



Break Ultra

Section 1. Identifi	cation	
Product identifier	: Break Ultra	
Product code	: 494	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of t	the substance or mixture and uses advised against	
Identified uses		
Laundry Additive		
Uses advised against	Reason	
For Industrial and Institutional	I Use Only -	
Supplier's details	: Betco Corporation 1690 Huron Church Road, Suite 169 Windsor ON N9C0AC CA	
	400 Van Camp Road Bowling Green, OH 43402 US www.betco.com 888-462-3826	
Emergency telephone number (with hours of operation)	: Chemtrec (800) 424-9300 24 hour	
Section 2. Hazard	identification	
Classification of the substance or mixture	: SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	: Causes severe skin burns and eye damage.	
Precautionary statements	,	
Prevention	: Wear protective gloves. Wear protective clothing: Recommendation resistant gloves. Wear eye or face protection: Recommendation Wash hands thoroughly after handling.	
Response	: IF INHALED: Remove person to fresh air and keep comfor Immediately call a POISON CENTER or physician. IF SW/ call a POISON CENTER or physician. Rinse mouth. Do N ON SKIN (or hair): Take off immediately all contaminated of water. Wash contaminated clothing before reuse. Immedia CENTER or physician. IF IN EYES: Rinse cautiously with Remove contact lenses, if present and easy to do. Continue call a POISON CENTER or physician.	ALLOWED: Immediately OT induce vomiting. IF clothing. Rinse skin with ately call a POISON water for several minutes.

Section 2. Hazard identification

- Storage Disposal
- : Store locked up.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

Ingredient name	% (w/w)	CAS number
sodium hydroxide	20 - 40	1310-73-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures		
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.	
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	

Most important symptoms/effects, acute and delayed

Potential acute health effects					
Eye contact	: Causes serious eye damage.				
Inhalation	: No known significant effects or critical hazards.				
Skin contact	: Causes severe burns.				
Ingestion	: No known significant effects or critical hazards.				

Date of issue/Date of revision

Section 4. First-aid measures

Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain watering redness Inhalation 2 No specific data. Skin contact : Adverse symptoms may include the following: pain or irritation redness blistering may occur : Adverse symptoms may include the following: Ingestion stomach pains Indication of immediate medical attention and special treatment needed, if necessary Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. **Specific treatments** : No specific treatment. **Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	inadequate. Fut on appropriate personal protective equipment.

Section 6. Accidental release measures

For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	nt	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before	Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
incompatibilities incompatibilities incompatibilities from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before	-	:	handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional
handling or use.	including any	:	from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
sodium hydroxide	CA Alberta Provincial (Canada, 4/2009). C: 2 mg/m ³ CA British Columbia Provincial (Canada, 6/2017). C: 2 mg/m ³ CA Ontario Provincial (Canada, 1/2018). C: 2 mg/m ³ CA Quebec Provincial (Canada, 1/2014). STEV: 2 mg/m ³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). CEIL: 2 mg/m ³

Appropriate engineering controls	local	er operations generate dust, fumes, gas, vapor or mist, use process enclosures, exhaust ventilation or other engineering controls to keep worker exposure to orne contaminants below any recommended or statutory limits.
Environmental exposure controls	they case	ssions from ventilation or work process equipment should be checked to ensure comply with the requirements of environmental protection legislation. In some s, fume scrubbers, filters or engineering modifications to the process pment will be necessary to reduce emissions to acceptable levels.

Individual protection measure	<u>es</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	-	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: splash goggles
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Chemical resistant gloves
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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Section 9. Physical and chemical properties

Physical state: Liquid.Color: Colorless.Odor: Odorless.Odor threshold: Not available.pH: 13 to 13.9Melting point: Not available.Boiling point: Not available.Flash point: Closed cup: Not applicable. [Product does not sustain combustion.]Evaporation rate: Not available.Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.Solubility in water: Not available.Partially soluble in the following materials: not water. Partially soluble in the following materials: cold water.Auto-ignition temperature viscosity: Not available.Viscosity: Not available.Flow time (ISO 2431): Not available.	<u>Appearance</u>	
Odor:Odorless.Odor threshold:Not available.pH:13 to 13.9Melting point:Not available.Boiling point:Not available.Flash point:Closed cup: Not applicable. [Product does not sustain combustion.]Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive (flammable) limits:Not available.Vapor pressure:Not available.Vapor density:Not available.Solubility in water:Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not available.Auto-ignition temperature Uscosity:Not available.Viscosity:Not available.Viscosity:Not available.	Physical state	: Liquid.
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Decomposition temperature : Not available. Viscosity : Not available.		: Not available.
Viscosity : Not available.	Auto-ignition temperature	: Not available.
· · · · · · · · · · · · · · · · · · ·	Decomposition temperature	: Not available.
Flow time (ISO 2431) : Not available.	Viscosity	: Not available.
	Flow time (ISO 2431)	: Not available.

Section 10. Stability and reactivity

Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: Not available.
Conditions to avoid	: No specific data.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation	
sodium hydroxide	Eyes - Severe irritant	Monkey	-	24 hours 1 Percent	-	
	Eyes - Mild irritant	Rabbit	-	400 Micrograms	-	
	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-	
	Eyes - Severe irritant	Rabbit	-	1 Percent	-	
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 milligrams	-	
	Skin - Mild irritant	Human	-	24 hours 2 Percent	-	
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	1	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects	<u>s</u>	
Eye contact	:	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes severe burns.
Ingestion	:	No known significant effects or critical hazards.
Eye contact	:	cal, chemical and toxicological characteristics Adverse symptoms may include the following: pain watering redness
Inhalation Skin contact		No specific data.
Skin contact	•	Adverse symptoms may include the following: pain or irritation redness blistering may occur

Section 11. Toxicological information

Ingestion	:	Adverse symptoms may include the following: stomach pains
Delayed and immediate effect	<u>ts</u> :	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates Not available.

Section 12. Ecological information

ToxicityProduct/ingredient nameResultSpeciesExposuresodium hydroxideAcute EC50 40.38 mg/l Fresh waterCrustaceans - Ceriodaphnia
dubia - Neonate
Fish - Gambusia affinis - Adult48 hours
96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil Soil/water partition : Not available. coefficient (Koc) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	TDG Classification	DOT Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	UN1760	UN1760	UN1760	UN1760	UN1760
UN proper shipping name	Corrosive liquid, n. o.s. (sodium hydroxide)	Corrosive liquid, n.o.s. (sodium hydroxide)	Corrosive liquid, n.o.s. (sodium hydroxide)	Corrosive liquid, n.o.s. (sodium hydroxide)	Corrosive liquid, n.o.s. (sodium hydroxide)
Transport hazard class(es)	8	8	8	8	8
Packing group	Ш	П	11	П	11
Environmental hazards	Yes.	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Date of issue/Date of revision		: 7/31/2020 Date of previous issue : 7/30/2019 Version : 1.03 9.	9/11
Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do the event of an accident or spillage.	
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations.	
IMDG	4	The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 k	œ.
ADR/RID	:	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$. <u>Tunnel code</u> (E)	n
DOT Classification	:	This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤ 5 L or ≤ 5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. Reportable quantity 2551 lbs / 1158.2 kg [211.15 gal / 799.28 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	
TDG Classification	:	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.	;

Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

Canadian lists Canadian NPRI

- : None of the components are listed.
- **CEPA Toxic substances**
- : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	 Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: Not determined.

Section 16. Other information

<u>History</u>	
Date of printing	: 7/31/2020
Date of issue/Date of revision	: 7/31/2020
Date of previous issue	: 7/30/2019
Version	: 1.03

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
-	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations
	HPR = Hazardous Products Regulations

Procedure used to derive the classification

Classification	Justification
SKIN CORROSION - Category 1	On basis of test data
SERIOUS EYE DAMAGE - Category 1	On basis of test data

References

: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.