



Section 1. Identification

GHS product identifier	: BRAKER	
Product code	: Not available.	
SDS #	: ICS-361	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advise	ed against
Identified uses	: Vehicle Care	
Supplier/Manufacturer	: DuBois Chemicals, Inc. 3630 E. Kemper Road Cincinnati, Ohio 45241 Phone: 1-800-438-2647	DuBois Chemicals Canada, Inc. 1 First Canadian Place 100 King Street West, Suite 1600 Toronto, Ontario, M5X 1G5 Canada Phone: 1-866-861-3603
Emergency telephone number	: 1-866-923-4919 (US and Canada) 01-651-523-0314 (Int'l and Mexico)	
Section 2. Hazar	ds identification	
OSHA/HCS status	: This material is considered hazardous (29 CFR 1910.1200).	by the OSHA Hazard Communication Standard
Classification of the substance or mixture	: CORROSIVE TO METALS Category SKIN CORROSION/IRRITATION - Cat SERIOUS EYE DAMAGE/ EYE IRRITA SKIN SENSITIZATION - Category 1	tegory 1B
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	: May be corrosive to metals. Causes severe skin burns and eye dan May cause an allergic skin reaction.	nage.
Precautionary statements	<u>8</u>	
Prevention		ctive gloves. Wear protective clothing. Keep ing vapor. Wash hands thoroughly after handling t be allowed out of the workplace.
Response	and keep at rest in a position comfortal CENTER or physician. IF SWALLOWE	nage. IF INHALED: Remove victim to fresh air ble for breathing. Immediately call a POISON ED: Immediately call a POISON CENTER or uce vomiting. IF ON SKIN (or hair): Take off

physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

: Store locked up. Store in corrosive resistant container with a resistant inner liner.

Storage

Section 2. Hazards identification

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

Date of issue/Date of revision

Section 3. Composition/information on ingredients

: None known.

Ingredient name	%	CAS number
Sodium Hydroxide	10 - 20	1310-73-2
Quaternary ammonium compounds, cocoalkylbis(hydroxyethyl)methyl, ethoxylated, chlorides	1 - 5	61791-10-4
tetrasodium ethylene diamine tetraacetate	1 - 5	64-02-8
dihydro-3-(octenyl)furan-2,5-dione	1 - 5	26680-54-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

: 9/6/2016.

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. 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.
<u>Most important symptoms/ef</u>	fec	ts, acute and delayed
Potential acute health effect	<u>s</u>	
Eye contact	:	Causes serious eye damage.

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Disposal

Section 4. First aid measures

Inhalation	 May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: May cause burns to mouth, throat and stomach.
Over-exposure signs/sy	<u>mptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate r	nedical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
See toxicological informa	ation (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 nitrogen oxides phosphorus oxides metal oxide/oxides
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	:	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.
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 for cleaning up		

Section 6. Accidental release measures

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. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. 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

Handling

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	CAS #	ACGIH	OSHA	Mexico
Sodium Hydroxide	1310-73-2	C: 2 mg/m³	TWA: 2 mg/m ³ 8 hours.	LMPE-Pico: 2 mg/m ³
Engineering measures	local exh	aust ventilation or other er	imes, gas, vapor or mist, us ngineering controls to keep ecommended or statutory lii	worker exposure to
Hygiene measures	eating, s Appropri Contami contamir	moking and using the lava ate techniques should be u nated work clothing should	oroughly after handling che tory and at the end of the w used to remove potentially c I not be allowed out of the w ng. Ensure that eyewash st on location.	orking period. ontaminated clothing. orkplace. Wash
Personal protection				
Respiratory	airfed res based or	spirator complying with an	s necessary, use a properly approved standard. Respir osure levels, the hazards of ator.	ator selection must be
Hands			ves complying with an appro emical products if a risk ass	

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Section 8. Exposure controls/personal protection

Eyes	: 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. Recommended: splash goggles
Skin	 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.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Personal protective equipment (Pictograms)	

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	Liquid.	
Color	Red.	
Odor	Not available.	
Odor threshold	Not available.	
рН	Not available.	
Melting point	Not available.	
Boiling point	Not available.	
Flash point	Closed cup: Not applicable.	
Burning time	Not applicable.	
Burning rate	Not applicable.	
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	1.08	
Solubility	Easily soluble in the following materials: cold water and hot water	∍r.
Solubility in water	Not available.	
Partition coefficient: n- octanol/water	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Elemental Phosphorus	Not available.	
VOC content	Not available.	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	 Reactive or incompatible with the following materials: acids. Slightly reactive or incompatible with the following materials: oxidizing materials and reducing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Storage	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. 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.

Section 11. Toxicological information

Information on toxicological	<u>effects</u>
Information on the likely routes of exposure	: Dermal contact. Eye contact. Inhalation.
Potential acute health effects	<u>s</u>
Eye contact	: Causes serious eye damage.
Inhalation	 May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: May cause burns to mouth, throat and stomach.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

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Section 11. Toxicological information

Potential chronic health effects

Not available.

General	 Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. 			
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 toxi	<u>city</u>			
Acute toxicity estimates				
Route	ATE value			

Oral

2544.5 mg/kg

Section 12. Ecological information

Ecotoxicity

: Not available.

: D002 [corrosive]

Aquatic ecotoxicity

Not available.

Section 13. Disposal considerations

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Waste disposal
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: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

IATA/IMDG/DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information.

Section 15. Regulatory information

U.S. Federal regulations	 TSCA 12(b) one-time export: No products were found. TSCA 12(b) annual export notification: No products were found. United States inventory (TSCA 8b): All components are listed or exempted. 						
	Clean Water Act (CWA) 311: Sodium Hydroxide						
	CERCLA: ⊦	CERCLA: Hazardous substances.: Sodium Hydroxide: 1000 lbs. (454 kg);					
EPA Registration Number	: Not availabl	e.					
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed						
<u>SARA 302/304</u>							
Composition/information	on ingredients						
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Section 15. Regulatory information

No products were found.

International lists	:	Australia inventory (AICS): Not determined. China inventory (IECSC): All components are listed or exempted. Japan inventory: Not determined. Korea inventory: Not determined. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted. Taiwan inventory (CSNN): Not determined.	
International regulations			
Canadian PCP/DIN Number			
Canada inventory		All components are listed or exempted.	
Canadian NPRI	:	None of the components are listed.	
<u>Canada</u> <u>Canadian lists</u>			
Not available.			
<u>California Prop. 65</u>			
Pennsylvania	4	The following components are listed: SODIUM HYDROXIDE (NA(OH))	
New Jersey	1	The following components are listed: SODIUM HYDROXIDE; CAUSTIC SODA	
New York	1	The following components are listed: Sodium hydroxide	
Massachusetts	:	The following components are listed: SODIUM HYDROXIDE	
Classification State regulations	:	Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA 304 RQ <u>SARA 311/312</u>	Ì	Not applicable.	
		AletPble	

Section 16. Other information

<u>History</u>	
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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named 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.