

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

Date of issue: 09/13/2015

SECTION 1: Identification

Identification

Product form : Mixture Product name : BRUTE FORCE

Product code C-124

Relevant identified uses of the substance or mixture and uses advised against

No additional information available

Details of the supplier of the safety data sheet

Creative Chemicals, Inc. 88 Winter Street Holyoke, MA 01040 T 413-533-8050

Emergency telephone number

Emergency number : CHEM TEL 800-255-3924

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Met. Corr. 1

Skin Corr. 1A

Eye Dam. 1

May be corrosive to metals

Causes severe skin burns and eye damage

Causes serious eye damage

2.2. **Label elements**

GHS-US labelling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US)

Hazard statements (GHS-US) May be corrosive to metals

Causes severe skin burns and eye damage

: Keep only in original container Precautionary statements (GHS-US)

> Do not breathe vapours, spray, mist Wash hands thoroughly after handling Wear eye protection, protective gloves

If swallowed: rinse mouth. Do NOT induce vomiting

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower

If inhaled: Remove person to fresh air and keep comfortable for breathing

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

Immediately call a doctor

Specific treatment (see First Aid measures on this label)

Wash contaminated clothing before reuse Absorb spillage to prevent material damage

Store locked up

Dispose of contents/container to an approved waste disposal plant

Other hazards

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Caustic Soda	(CAS No) 1310-73-2	6.86 - 12.74	Met. Corr. 1, H290 Skin Corr. 1A, H314
KOH / potassium hydroxide	(CAS No) 1310-58-3	7 - 9	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318
disodium metasilicate, pentahydrate	(CAS No) 10213-79-3	4 - 6	Skin Corr. 1B, H314 STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately

call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

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 effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after eye contact : Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

Reactivity : Corrosive vapours

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb spillage to prevent material damage.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.

Precautions for safe handling : Do not breathe vapours, spray, mist. Avoid contact during pregnancy/while nursing.

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Hygiene measures : Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Packaging materials : Store in corrosive resistant/... container with a resistant inner liner.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Caustic Soda (1310-73-2)		
ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
ACGIH	Remark (ACGIH)	URT, eye, & skin irr
OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³

KOH / potassium hydroxide (1310-58-3)		
ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
ACGIH	Remark (ACGIH)	URT, eye, & skin irr

8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses.



Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Mixture contains one or more component(s) which have the following colour(s):

Colourless White to light yellow Colourless to light green No data available on colour

Odour : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour(s):

Odourless Almost odourless

Odour threshold No data available рΗ No data available Melting point No data available Freezing point No data available Boiling point : No data available Flash point No data available Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available **Explosive limits** : No data available Explosive properties : No data available No data available Oxidising properties Vapour pressure No data available Relative density No data available Relative vapour density at 20 °C : No data available

Solubility : Water: Solubility in water of component(s) of the mixture :

• KOH / potassium hydroxide: 112 g/100ml • disodium metasilicate, pentahydrate: 17.5

g/100ml • nonylphenoxypoly(ethyleneoxy)ethanol: soluble

Log Pow : No data available
Auto-ignition temperature : No data available

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Decomposition temperature : No data available Viscosity : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapours.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

metals. May be corrosive to metals.

10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

K	KOH / potassium hydroxide (1310-58-3)	
LD	050 oral rat	333 mg/kg (Rat; Equivalent or similar to OECD 425; Experimental value)
ΑT	ΓE US (oral)	333.000 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after eye contact : Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity

KOH / potassium hydroxide (1310-58-3)		
LC50 fish 2	80 mg/l (LC50; 96 h; Gambusia affinis; Static system; Fresh water)	
disodium metasilicate, pentahydrate (10213-79-3)		
LC50 fish 1	210 mg/l (LC50; 96 h)	
EC50 Daphnia 1	216 mg/l (EC50; 96 h)	

12.2. Persistence and degradability

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Caustic Soda (1310-73-2)		
Persistence and degradability	Not established.	
KOH / potassium hydroxide (1310-58-3)		
Persistence and degradability	Biodegradability: not applicable. Not established.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
disodium metasilicate, pentahydrate (10213-79-3)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

12.3. Bioaccumulative potential

Caustic Soda (1310-73-2)		
Bioaccumulative potential	Not established.	
KOH / potassium hydroxide (1310-58-3)		
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	
disodium metasilicate, pentahydrate (10213-79-3)		
Bioaccumulative potential	No bioaccumulation data available.	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to an approved waste disposal plant.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1824 Sodium hydroxide solution, 8, III

UN-No.(DOT) : UN1824

Proper Shipping Name (DOT) : Sodium hydroxide solution

Transport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) : 8 - Corrosive

8

Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

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DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 52 - Stow "separated from" acids

Emergency Response Guide (ERG) Number : 154

Other information : No supplementary information available.

TDG

No additional information available

Transport by sea

UN-No. (IMDG) : 1824

Proper Shipping Name (IMDG) : SODIUM HYDROXIDE SOLUTION

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : III - substances presenting low danger

Air transport

UN-No. (IATA) : 1824

Proper Shipping Name (IATA) : Sodium hydroxide solution

Class (IATA) : 8 - Corrosives
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

BRUTE FORCE

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

disodium metasilicate, pentahydrate CAS No 10213-79-3 4 - 6%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Caustic Soda (1310-73-2)	
Not subject to reporing requirements of the United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
KOH / potassium hydroxide (1310-58-3)	
Not subject to reporing requirements of the United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's	1000 lb

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

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Caustic Soda (1310-73-2)

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

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

KOH / potassium hydroxide (1310-58-3)

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

Full text of H-statements:

Acute toxicity (oral), Category 4
Serious eye damage/eye irritation, Category 1
Corrosive to metals, Category 1
Skin corrosion/irritation, Category 1A
Skin corrosion/irritation, Category 1B
Specific target organ toxicity — Single exposure, Category 3,
Respiratory tract irritation
May be corrosive to metals
Harmful if swallowed
Causes severe skin burns and eye damage
Causes serious eye damage
May cause respiratory irritation

NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated

temperatures and pressures or may react with water with

some release of energy, but not violently.



HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high

temperatures and pressures. Materials may react non-violently with water or undergo

hazardous polymerization in the absence of inhibitors.

Personal Protection : B

B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to information concerning the product referred to in this document. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material.

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