## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture

Product name : **Carbon-Off**

Product code : C-CO01

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Concentrated Oven Cleaner

### 1.3. Details of the supplier of the safety data sheet

HD Chem
707 W. 16th St.
Long Beach, CA 90813
(888) 443-2436

### 1.4. Emergency telephone number

Emergency number : (888) 443-2436

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS US classification**

| | |
|---|---|
| Skin Corr. 1B | H314 |
| Eye Dam. 1 | H318 |

Full text of H and EUH statements: see section 16

### 2.2. Label elements

**GHS US labeling**

Hazard pictograms :

GHS05

Signal word : Danger

Hazard statements : Causes severe skin burns and eye damage.
Causes serious eye damage.

Precautionary statements : Do not breathe fume, mist, vapors.
Wash hands and forearms thoroughly after handling.
Wear eye protection, face protection, protective clothing, 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 poison center or doctor/physician.
Specific treatment (see the emergency and first aid section of this Safety Data Sheet on this label).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Hazard not otherwise classified (HNOC)

No additional information available.

### 2.4. Unknown acute toxicity (GHS US)

1% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
1% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
1% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)).

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable.

**(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)**

***Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.**

Full text of H and EUH statements: see section 16

### 3.2. Mixture

| Name | Product identifier | % | GHS US classification |
|---|---|---|---|
| 2-(2-butoxyethoxy)ethanol | (CAS-No.) 112-34-5 | 5 - 10 | Eye Irrit. 2A, H319 |
| sodium hydroxide | (CAS-No.) 1310-73-2 | 5 - 10 | Met. Corr. 1, H290<br>Acute Tox. 4 (Dermal), H312<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 3, H402 |
| sodium xylenesulfonate | (CAS-No.) 1300-72-7 | 5 - 10 | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |
| disodium metasilicate | (CAS-No.) 6834-92-0 | 1 - 5 | Skin Corr. 1B, H314<br>STOT SE 3, H335 |
| Disodium cocoamphodipropionate | (CAS-No.) 68604-71-7 | 1 - 5 | Eye Irrit. 2B, H320 |
| Decyl alcohol, ethoxylated, phosphated | (CAS-No.) 52019-36-0 | 0.1 - 5 | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320 |

**(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)**

***Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.**

## 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 : 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/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Corrosion of the upper respiratory tract. Respiratory difficulties.

Symptoms/effects after skin contact : Causes burns/corrosion of the skin. May cause an allergic skin reaction.

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

Symptoms/effects after ingestion : Harmful if swallowed. Abdominal pain. Difficulty in swallowing. Burns to the gastric/intestinal mucosa.

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

No additional information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard : INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity Hazard".

Reactivity : Reacts violently with (some) acids: release of heat. Reacts with (some) metals and their compounds: release of highly flammable gases/vapors (hydrogen). Contact with moisture or water may generate heat. Reacts with (some) halogen compounds. Reacts with (strong) oxidizers.

### 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.
Other information : No additional information available.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk.

#### 6.1.1. For non-emergency personnel

Protective equipment : Protective goggles.
Protective gloves.
Protective clothing.
Respiratory protection.

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

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. If reacting: dilute toxic gas/vapor with water spray.

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. Small quantities of liquid spill: neutralize with dilute acid solution. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe fume, mist, vapors. Ensure good ventilation of the work station. Observe normal hygiene standards. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. Comply with applicable regulations.
Incompatible products : Acids. Oxidizing agent.
Storage area : Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **2-(2-butoxyethoxy)ethanol (112-34-5)** | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 10 ppm |
| ACGIH | ACGIH STEL (ppm) | 10 ppm |

| **sodium hydroxide (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 |

### 8.2. Exposure controls

| | | |
|---|---|---|
| Personal protective equipment | : | Avoid all unnecessary exposure. |
| Hand protection | : | Wear protective gloves. |
| Eye protection | : | Chemical goggles or face shield. |
| Skin and body protection | : | Wear suitable protective clothing. |
| Respiratory protection | : | Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of insufficient ventilation, wear suitable respiratory equipment. |
| Other information | : | Do not eat, drink or smoke during use. |
| Appropriate engineering controls | : | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Color | : | Clear to amber |
| Odor | : | Lemon |
| Odor threshold | : | No data available |
| pH | : | 13 - 14 |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | > 200 °F |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Explosion limits | : | No data available |
| Vapor pressure | : | No data available |
| Vapor density | : | No data available |
| Specific Gravity @ 77º F | : | 1.123 - 1.143 |
| Solubility | : | Soluble in water |
| Partition Coefficient n-Octanol-Water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | No data available |

### 9.2. Other information

| | | |
|---|---|---|
| VOC content | : | < 5 g/l CARB VOC |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts violently with (some) acids: release of heat. Reacts with (some) metals and their compounds: release of highly flammable gases/vapors (hydrogen). Contact with moisture or water may generate heat. Reacts with (some) halogen compounds. Reacts with (strong) oxidizers.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids. Contact with halogenated compounds may liberate toxic gas.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Oxidizers. May be corrosive to metals.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Phosphorus oxides. Sulfur oxides. Nitrogen oxides. Thermal decomposition generates : Corrosive vapors.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| disodium metasilicate (6834-92-0) | |
|---|---|
| LD50 dermal rat | > 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity) |

| sodium xylenesulfonate (1300-72-7) | |
|---|---|
| LD50 oral rat | 3346 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| ATE US (oral) | 3346 mg/kg body weight |

| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
|---|---|
| LD50 oral rat | 5660 mg/kg (Rat) |
| LD50 dermal rabbit | 2764 mg/kg (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity) |
| ATE US (oral) | 5660 mg/kg body weight |
| ATE US (dermal) | 2764 mg/kg body weight |

| sodium hydroxide (1310-73-2) | |
|---|---|
| LD50 dermal rabbit | 1350 mg/kg (Rabbit; Literature) |
| ATE US (dermal) | 1350 mg/kg body weight |

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 13 - 14

Serious eye damage/irritation : Causes serious eye damage.
pH: 13 - 14

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met.

Carcinogenicity : Not classified

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met.

STOT-single exposure : Not classified

STOT-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/effects after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Corrosion of the upper respiratory tract. Respiratory difficulties.

Symptoms/effects after skin contact : Causes burns/corrosion of the skin. May cause an allergic skin reaction.

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

Symptoms/effects after ingestion : Harmful if swallowed. Abdominal pain. Difficulty in swallowing. Burns to the gastric/intestinal mucosa.

## SECTION 12: Ecological information

### 12.1. Toxicity

| 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; Static system) |
| LC50 fish 2 | 2320 mg/l (96 h; Gambusia affinis) |
| EC50 Daphnia 2 | 632 mg/l (96 h; Lymnaea sp.; Static system) |
| Threshold limit algae 1 | 207 mg/l (72 h; Scenedesmus subspicatus; GLP) |

| sodium xylenesulfonate (1300-72-7) | |
|---|---|
| LC50 fish 1 | > 1580 mg/l (Rainbow trout) |
| EC50 Daphnia 1 | > 1020 mg/l |
| ErC50 (algae) | 758 mg/l |

| sodium xylenesulfonate (1300-72-7) | |
|---|---|
| NOEC chronic algae | 240 mg/l |

| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
|---|---|
| LC50 fish 1 | 1300 mg/l (96 h; Lepomis macrochirus) |
| LC50 other aquatic organisms 1 | 10 - 100 mg/l (96 h) |
| EC50 Daphnia 1 | 2850 mg/l (24 h; Daphnia magna; GLP) |
| LC50 fish 2 | 1805 mg/l (48 h; Leuciscus idus) |
| EC50 Daphnia 2 | > 100 mg/l (48 h; Daphnia magna) |
| TLM fish 1 | 10 - 100,96 h; Pisces |
| TLM other aquatic organisms 1 | 10 - 100,96 h |
| Threshold limit other aquatic organisms 1 | 10 - 100,96 h |
| Threshold limit algae 1 | 53 mg/l (192 h; Microcystis aeruginosa) |
| Threshold limit algae 2 | >= 100 mg/l (96 h; Scenedesmus subspicatus) |

| sodium hydroxide (1310-73-2) | |
|---|---|
| LC50 fish 1 | 45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Solution >=50%) |
| EC50 Daphnia 1 | 40.4 mg/l (48 h; Ceriodaphnia sp.; Nominal concentration) |
| LC50 fish 2 | 189 mg/l (48 h; Leuciscus idus) |
| TLM fish 1 | 99 mg/l (48 h; Lepomis macrochirus) |
| TLM fish 2 | 125 ppm (96 h; Gambusia affinis) |

### 12.2. Persistence and degradability

| 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 xylenesulfonate (1300-72-7) | |
|---|---|
| Persistence and degradability | Biodegradability in water: no data available. |

| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available. Photodegradation in the air. |
| Biochemical oxygen demand (BOD) | 0.25 g $O_2$/g substance |
| Chemical oxygen demand (COD) | 2.08 g $O_2$/g substance |
| ThOD | 2.173 g $O_2$/g substance |
| BOD (% of ThOD) | 0.11 % ThOD |

| sodium hydroxide (1310-73-2) | |
|---|---|
| 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 |

### 12.3. Bioaccumulative potential

| disodium metasilicate (6834-92-0) | |
|---|---|
| Bioaccumulative potential | Bioaccumulation: not applicable. |

| sodium xylenesulfonate (1300-72-7) | |
|---|---|
| Bioaccumulative potential | No bioaccumulation data available. |

| 2-(2-butoxyethoxy)ethanol (112-34-5) | |
|---|---|
| BCF fish 1 | 0.46 (QSAR) |
| Log Pow | 0.56 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| sodium hydroxide (1310-73-2) | |
|---|---|
| Bioaccumulative potential | Bioaccumulation: not applicable. |

### 12.4. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with Local, State, and Federal regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### 14.1. UN Number

UN-No.(DOT) : UN3266

Other information : Under 49 CFR 173.154(c) and (b)(1): This product may be shipped as ORM-D or Limited Quantity if the inner packagings do not exceed 1 L (0.3 gallons) or 1.0 kg (2.2 lbs). This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable.

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : UN3266, Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Hydroxide, Disodium Metasilicate), 8, PGII

Hazard labels (DOT) : 8 - Corrosive


## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

| | | |
|---|---|---|
| Disodium cocoamphodipropionate | CAS-No. 68604-71-7 | 1 - 5% |

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|---|---|---|
| 2-(2-butoxyethoxy)ethanol | CAS-No. 112-34-5 | 5 - 10% |

| **disodium metasilicate (6834-92-0)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory.<br>Listed on the Canadian DSL (Domestic Substances List). | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

| **sodium xylenesulfonate (1300-72-7)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory.<br>Listed on the Canadian DSL (Domestic Substances List). | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

| **2-(2-butoxyethoxy)ethanol (112-34-5)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory.<br>Subject to reporting requirements of United States SARA Section 313.<br>Listed on the Canadian DSL (Domestic Substances List). | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
| SARA Section 313 - Emission Reporting | 1 % |

| **Decyl alcohol, ethoxylated, phosphated (52019-36-0)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory. | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |

| sodium hydroxide (1310-73-2) | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory.<br>Not subject to reporting requirements of the United States SARA Section 313.<br>Listed on the Canadian DSL (Domestic Substances List). | |
| RQ (Reportable quantity, section 101(14) of CERCLA as published on EPA's List of Lists) : | 1000 lb |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

### 15.2. International regulations

**CANADA**

| disodium metasilicate (6834-92-0) |
|---|
| Listed on the Canadian DSL (Domestic Substances List). |

| proprietary ingredient (1300-72-7) |
|---|
| Listed on the Canadian DSL (Domestic Substances List). |

| 2-(2-butoxyethoxy)ethanol (112-34-5) |
|---|
| Listed on the Canadian DSL (Domestic Substances List). |

| sodium hydroxide (1310-73-2) |
|---|
| Listed on the Canadian DSL (Domestic Substances List). |

**EU-Regulations**
No additional information available.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Not classified

**15.2.2. National regulations**

### 15.3. US State regulations

Prop 65 Disclaimer : This product contains a chemical that is at or below California Propositions 65's "safe harbor level" as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

## SECTION 16: Other information

Abbreviations Legend:

| | |
|---|---|
| H290 | May be corrosive to metals |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H320 | Causes eye irritation |
| H335 | May cause respiratory irritation |
| H402 | Harmful to aquatic life |

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Revision date: 03/11/2022 Supersedes: 10/07/2020 Version: 1.7