Special Concentrate Cleaner

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

1.1 Product identifier

Trade name: Special Concentrate Cleaner

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

Relevant identified uses: all-purpose cleaner concentrate
Uses advised against:
- do not use for squirting or spraying
- do not use for products which come into direct contact with the skin

1.3 Details of the supplier of the safety data sheet

B&B Blending, LLC
10963 Leroy Drive
Northglenn
CO 80233 United States

Telephone: 1.800.875.6320, 1.303.289.6320
Telefax e-mail: info@bbblending.com
Website: bbblending.com

Competent person responsible for the SDS: Robert Blahnik
e-mail (competent person): bblahnik@bbblending.com

1.4 Emergency telephone number

Emergency information service: USA 1.800.535.5053, INTL 1.352.323.3500
24 hour emergency telephone number.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Annex</th>
<th>Hazard class and category</th>
<th>Hazard statement code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.2</td>
<td>skin corrosion/irritation</td>
<td>Cat. 1A (Skin Corr. 1A)</td>
</tr>
<tr>
<td>A.3</td>
<td>serious eye damage/eye irritation</td>
<td>Cat. 1 (Eye Dam. 1)</td>
</tr>
</tbody>
</table>

Remarks
For full text of H-phrases: see SECTION 16.

Hazards not otherwise classified
Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

The most important adverse physicochemical, human health and environmental effects
Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.
2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word: danger

Pictograms: GHS05

Hazard statements

H314: Causes severe skin burns and eye damage.

Precautionary statements

Precautionary statements - prevention

Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).

Precautionary statements - disposal

Dispose of contents/container to industrial combustion plant.

Hazardous ingredients for labelling: sodium metasilicate, anhydrous, Alcohols, C9-11 ethoxylated

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>Wt%</th>
<th>Hazard class and category</th>
<th>Hazard statement</th>
<th>Pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>CAS No 5131-66-8</td>
<td>1 - &lt; 5</td>
<td>B.6 A.2 A.3</td>
<td>Flam. Liq. 4 Skin Irrit. 2 Eye Irrit. 2A</td>
<td>H227 H315 H319</td>
</tr>
<tr>
<td>Alcohols, C9-11 ethoxylated</td>
<td>CAS No 68439-46-3</td>
<td>1 - &lt; 5</td>
<td>A.3</td>
<td>Eye Dam. 1</td>
<td>H318</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General notes
Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation
In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Following eye contact
Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion
Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO2)

Unsuitable extinguishing media
water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)
5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Remove persons to safety.

For emergency responders
Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

Advises on how to contain a spill
Covering of drains.

Advises on how to clean up a spill
Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques
Use of adsorbent materials.

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Handling of incompatible substances or mixtures
Do not mix with acids.
Advice on general occupational hygiene
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Incompatible substances or mixtures
Observe compatible storage of chemicals.

Control of the effects

Protect against external exposure, such as
frost

Consideration of other advice

Packaging compatibilities
Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)
See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)
Relevant DNELs/DMELs/PNECs and other threshold levels
No data available.

8.2 Exposure controls

Appropriate engineering controls
General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection
Wear eye/face protection.

Skin protection

• hand protection
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
• other protection measures
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls
Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: liquid
Color: yellow
Odor: fresh

Other physical and chemical parameters
pH (value): 12.8 - 12.9 at 25 °C (base)
Melting point/freezing point: not determined
Initial boiling point and boiling range: 100 °C
Flash point: >100 °C at 961.3 mbar (closed cup)
Evaporation rate: not determined
Flammability (solid, gas): not relevant (fluid)
Explosive limits: not determined
Vapor pressure: 31.69 hPa at 25 °C
Density: 1.05 g/cm³, 8.7 lbs/USGal
Solubility(ies): miscible in any proportion
Water solubility
Partition coefficient
n-octanol/water (log KOW): This information is not available.
Auto-ignition temperature: 260 °C
Viscosity: not determined
Explosive properties: none
Oxidizing properties: none
SECTION 10: Stability and reactivity

10.1 Reactivity
Concerning incompatibility: see below “Conditions to avoid” and “Incompatible materials”.

10.2 Chemical stability
See below “Conditions to avoid”.

10.3 Possibility of hazardous reactions
No known hazardous reactions.

10.4 Conditions to avoid
There are no specific conditions known which have to be avoided.

Physical stresses which might result in a hazardous situation and have to be avoided
strong shocks

10.5 Incompatible materials
There is no additional information.

Release of flammable materials with
light metals (due to the release of hydrogen in an acid/alkaline medium)

Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not
known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Test data are not available for the complete mixture.

Classification procedure
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).


Acute toxicity
Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>ATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium metasilicate, anhydrous</td>
<td>6834-92-0</td>
<td>oral</td>
<td>1,280</td>
</tr>
</tbody>
</table>

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

Respiratory or skin sensitization
Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties
Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Carcinogenicity
• National Toxicology Program (United States): none of the ingredients are listed

Specific target organ toxicity (STOT)
Shall not be classified as a specific target organ toxicant.

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)
Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>5131-66-8</td>
<td>EC50</td>
<td>&gt;1,000 mg/l</td>
<td>aquatic invertebrates</td>
<td>48 hours</td>
</tr>
<tr>
<td>Alcohols, C9-11 ethoxylated</td>
<td>68439-46-3</td>
<td>LC50</td>
<td>7 mg/l</td>
<td>fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>Alcohols, C9-11 ethoxylated</td>
<td>68439-46-3</td>
<td>EC50</td>
<td>2.5 mg/l</td>
<td>aquatic invertebrates</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>5131-66-8</td>
<td>EC50</td>
<td>&gt;1,000 mg/l</td>
<td>microorganisms</td>
<td>3 h</td>
</tr>
</tbody>
</table>

12.2 Process of degradability
Data are not available.
12.3 Degradability of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Process</th>
<th>Degradation rate</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>5131-66-8</td>
<td>DOC removal</td>
<td>10.4 %</td>
<td>7 d</td>
</tr>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>5131-66-8</td>
<td>carbon dioxide generation</td>
<td>67 - 68 %</td>
<td>7 d</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>BCF</th>
<th>Log KOW</th>
<th>BOD5/COD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>5131-66-8</td>
<td>1.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alcohols, C9-11 ethoxylated</td>
<td>68439-46-3</td>
<td></td>
<td>3.75</td>
<td></td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

**SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

13.3 Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
### SECTION 14: Transport information

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.1</strong></td>
<td>UN number</td>
<td>1760</td>
</tr>
<tr>
<td><strong>14.2</strong></td>
<td>UN proper shipping name</td>
<td>CORROSIVE LIQUID, N.O.S.</td>
</tr>
<tr>
<td></td>
<td>Hazardous constituents</td>
<td>sodium metasilicate, anhydrous</td>
</tr>
<tr>
<td><strong>14.3</strong></td>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class</td>
<td>8 (corrosive substances)</td>
</tr>
<tr>
<td><strong>14.4</strong></td>
<td>Packing group</td>
<td>II (substance presenting medium danger)</td>
</tr>
<tr>
<td><strong>14.5</strong></td>
<td>Environmental hazards</td>
<td>none (non-environmentally hazardous acc. to the dangerous goods regulations)</td>
</tr>
<tr>
<td><strong>14.6</strong></td>
<td>Special precautions for user</td>
<td>There is no additional information.</td>
</tr>
<tr>
<td><strong>14.7</strong></td>
<td>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
<td>The cargo is not intended to be carried in bulk.</td>
</tr>
<tr>
<td><strong>14.8</strong></td>
<td>Information for each of the UN Model Regulations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Transport of dangerous goods by road or rail (49 CFR US DOT)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Index number</td>
<td>1760</td>
</tr>
<tr>
<td></td>
<td>Proper shipping name</td>
<td>Corrosive liquid, n.o.s.</td>
</tr>
<tr>
<td></td>
<td>Class</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td></td>
<td>Danger label(s)</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Special provisions (SP)</td>
<td>B2, IB2, T11, TP2, TP27</td>
</tr>
<tr>
<td></td>
<td>ERG No</td>
<td>154</td>
</tr>
<tr>
<td></td>
<td>• International Maritime Dangerous Goods Code (IMDG)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UN number</td>
<td>1760</td>
</tr>
<tr>
<td></td>
<td>Proper shipping name</td>
<td>CORROSIVE LIQUID, N.O.S.</td>
</tr>
<tr>
<td></td>
<td>Class</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Subsidiary risk(s)</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td></td>
<td>Danger label(s)</td>
<td>8</td>
</tr>
</tbody>
</table>
Special Concentrate Cleaner

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Industry or sector specific available guidance(s)

• NPCA-HMIS® III

Hazardous Materials Identification System (American Coatings Association)

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic</td>
<td>/</td>
<td>None.</td>
</tr>
<tr>
<td>Health</td>
<td>3</td>
<td>Major injury likely unless prompt action is taken and medical treatment is given.</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
<td>Materials that must be preheated before ignition can occur.</td>
</tr>
<tr>
<td>Physical hazard</td>
<td>0</td>
<td>Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.</td>
</tr>
<tr>
<td>Personal protective equipment</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>
• NFPA® 704


<table>
<thead>
<tr>
<th>Category</th>
<th>Degree of hazard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1</td>
<td>Materials that must be preheated before ignition can occur.</td>
</tr>
<tr>
<td>Health</td>
<td>3</td>
<td>Materials that, under emergency conditions, can cause serious or permanent injury.</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
<td>Materials that are normally stable, even under fire conditions.</td>
</tr>
</tbody>
</table>

Relevant European Union (EU) safety, health and environmental provisions

Classification according to GHS (1272/2008/EC, CLP)

Skin corrosion/irritation Cat. 1A (Skin Corr. 1A)
Serious eye damage/eye irritation Cat. 1 (Eye Dam. 1)
Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

SECTION 16: Other information

16.2 Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>49 CFR US DOT</td>
<td>49 CFR § 40 U.S. Department of Transportation</td>
</tr>
<tr>
<td>Acute Tox.</td>
<td>acute toxicity</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>BioConcentration Factor</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical Oxygen Demand</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CLP</td>
<td>Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or Toxic for Reproduction</td>
</tr>
<tr>
<td>COD</td>
<td>chemical oxygen demand</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>EmS</td>
<td>Emergency Schedule</td>
</tr>
<tr>
<td>ERG No</td>
<td>Emergency Response Guidebook - Number</td>
</tr>
<tr>
<td>Eye Dam.</td>
<td>seriously damaging to the eye</td>
</tr>
<tr>
<td>Eye Irrit.</td>
<td>irritant to the eye</td>
</tr>
<tr>
<td>Flam. Liq.</td>
<td>flammable liquid</td>
</tr>
</tbody>
</table>

United States

BB 00720 SDS-02

Page 12 / 14
### Physical and chemical properties
The classification is based on tested mixture.

### Health hazards/Environmental hazards
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Descriptions of used abbreviations

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>IATA/DGR</td>
<td>Dangerous Goods Regulations (DGR) for the air transport (IATA)</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>log KOW</td>
<td>n-octanol/water</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of &quot;Marine Pollutant)</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration (United States)</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>Skin Corr.</td>
<td>corrosive to skin</td>
</tr>
<tr>
<td>Skin Irrit.</td>
<td>irritant to skin</td>
</tr>
<tr>
<td>STOT SE</td>
<td>specific target organ toxicity - single exposure</td>
</tr>
<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
</tbody>
</table>

### Key literature references and sources for data

### Classification procedure
Physical and chemical properties: The classification is based on tested mixture.
Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H227</td>
<td>combustible liquid</td>
</tr>
<tr>
<td>H302</td>
<td>harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>may cause respiratory irritation</td>
</tr>
</tbody>
</table>
16.7 Disclaimer
This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.