

BOYD POWER CLEAN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 6/8/2021 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product code : 1913KNA

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleansing product

1.3. Supplier

KARCHER NORTH AMERICA
6398 N Karcher Way
Aurora, 80019
United States
T 303-738-2400
info@karcherna.com

1.4. Emergency telephone number

Emergency number : 800-535-5053
For Chemical Emergency Call INFOTRAC 24hr/day 7days/week
Within USA and Canada: 1-800-535-5053
Outside USA and Canada: 1-352-323-3500
(collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % |
|-------------------------------|---------------------|-------|
| BUTHOXYETHANOL | CAS-No.: 111-76-2 | 1 – 5 |
| ALCOHOLS, C6-C12, ETHOXYLATED | CAS-No.: 68439-45-2 | 1 – 5 |
| SODIUM CARBONATE | CAS-No.: 497-19-8 | 1 – 5 |
| SODIUM NITRITE | CAS-No.: 7631-99-4 | 1 – 5 |
| SODIUM XYLENE SULFONATE | CAS-No.: 1300-72-7 | 1 – 5 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a poison center/doctor/physician if you feel unwell. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center/doctor/physician if you feel unwell. |

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

| | |
|--|--------------------------------|
| Fire hazard | : Not flammable. |
| Explosion hazard | : No direct explosion hazard. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not handle until all safety precautions have been read and understood.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.
Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

SODIUM CARBONATE (497-19-8)

No additional information available

SODIUM NITRITE (7631-99-4)

No additional information available

SODIUM XYLENE SULFONATE (1300-72-7)

No additional information available

ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2)

No additional information available

BUTHOXYETHANOL (111-76-2)

USA - ACGIH - Occupational Exposure Limits

| | |
|---------------------|------------------------|
| Local name | 2-Butoxyethanol (EGBE) |
| ACGIH OEL TWA [ppm] | 20 ppm |

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| BUTHOXYETHANOL (111-76-2) | |
|---|--|
| Remark (ACGIH) | TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BE1 |
| Regulatory reference | ACGIH 2019 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | 2-Butoxyethanol |
| OSHA PEL (TWA) [1] | 240 mg/m ³ |
| OSHA PEL (TWA) [2] | 50 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

| |
|--|
| Hand protection: |
| Protective gloves |
| Eye protection: |
| Safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment |

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Color : Yellow
Odor : characteristic
Odor threshold : No data available
pH : 11.3
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Not applicable.
Vapor pressure : No data available

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| | |
|---|---------------------|
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

VOC CONTENT:

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| SODIUM CARBONATE (497-19-8) | |
|-----------------------------|--|
| LD50 oral rat | 2800 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 2000 mg/kg (16 CFR 1500. 40, 24 h, Rabbit, Experimental value, Dermal) |
| LC50 inhalation rat (mg/l) | 2.3 mg/l (2 h, Rat, Male, Experimental value, Inhalation (aerosol)) |
| ATE US (oral) | 2800 mg/kg body weight |
| ATE US (vapors) | 2.3 mg/l/4h |
| ATE US (dust, mist) | 2.3 mg/l/4h |

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| SODIUM NITRITE (7631-99-4) | |
|---|---|
| LD50 oral rat | 3430 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 5000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| ATE US (oral) | 3430 mg/kg body weight |
| SODIUM XYLENE SULFONATE (1300-72-7) | |
| LD50 oral rat | > 7000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Read-across, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 2000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Read-across, Dermal, 14 day(s)) |
| ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2) | |
| LD50 oral rat | > 1000 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit, Dermal) |
| BUTHOXYETHANOL (111-76-2) | |
| LD50 oral rat | 1746 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s)) |
| LC50 inhalation rat (mg/l) | > 4.26 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |
| ATE US (oral) | 1414 mg/kg body weight |
| ATE US (dermal) | 1100 mg/kg body weight |
| ATE US (gases) | 4500 ppmV/4h |
| ATE US (vapors) | 11 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |
| Skin corrosion/irritation | : Not classified pH: 11.3 |
| Serious eye damage/irritation | : Not classified pH: 11.3 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| BUTHOXYETHANOL (111-76-2) | |
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| BUTHOXYETHANOL (111-76-2) | |
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified |
| SODIUM NITRITE (7631-99-4) | |
| NOAEL (oral,rat,90 days) | ≥ 1500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

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| BUTHOXYETHANOL (111-76-2) | |
|-----------------------------------|--|
| NOAEL (dermal,rat/rabbit,90 days) | > 150 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| SODIUM CARBONATE (497-19-8) | |
|-----------------------------|--|
| LC50 - Fish [1] | 300 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Lethal) |
| EC50 - Daphnia [1] | 200 – 227 mg/l (48 h, Ceriodaphnia sp., Semi-static system, Fresh water, Experimental value, Locomotor effect) |

| SODIUM NITRITE (7631-99-4) | |
|----------------------------|--|
| LC50 - Fish [1] | > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP) |
| EC50 - Daphnia [1] | 8609 mg/l (Equivalent or similar to OECD 202, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |

| SODIUM XYLENE SULFONATE (1300-72-7) | |
|-------------------------------------|---|
| LC50 - Fish [1] | > 1000 mg/l (EPA OTS 797.1400, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value) |
| EC50 - Daphnia [1] | > 1000 mg/l (EPA OTS 797.1300, 48 h, Daphnia magna, Static system, Fresh water, Experimental value) |

| BUTHOXYETHANOL (111-76-2) | |
|---------------------------|--|
| LC50 - Fish [1] | 1474 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal) |
| EC50 - Daphnia [1] | 1550 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| ErC50 algae | 1840 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |
| NOEC (chronic) | 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | > 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '21 d' |

12.2. Persistence and degradability

| SODIUM CARBONATE (497-19-8) | |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

| SODIUM NITRITE (7631-99-4) | |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |

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| SODIUM NITRITE (7631-99-4) | |
|---|---|
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| SODIUM XYLENE SULFONATE (1300-72-7) | |
| Persistence and degradability | Readily biodegradable in water. |
| ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2) | |
| Persistence and degradability | Readily biodegradable in water. |
| BUTHOXYETHANOL (111-76-2) | |
| Persistence and degradability | Readily biodegradable in water. |
| 12.3. Bioaccumulative potential | |
| SODIUM CARBONATE (497-19-8) | |
| Partition coefficient n-octanol/water (Log Pow) | -6.19 (Estimated value) |
| Bioaccumulative potential | Not bioaccumulative. |
| SODIUM NITRITE (7631-99-4) | |
| Partition coefficient n-octanol/water (Log Pow) | -3.8 |
| Bioaccumulative potential | Not bioaccumulative. |
| SODIUM XYLENE SULFONATE (1300-72-7) | |
| Partition coefficient n-octanol/water (Log Pow) | -3.12 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C) |
| Bioaccumulative potential | Not bioaccumulative. |
| ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.01 (Estimated value) |
| Bioaccumulative potential | Not bioaccumulative. |
| BUTHOXYETHANOL (111-76-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.81 (Experimental value, BASF test, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 12.4. Mobility in soil | |
| SODIUM CARBONATE (497-19-8) | |
| Ecology - soil | Low potential for adsorption in soil. |
| SODIUM NITRITE (7631-99-4) | |
| Ecology - soil | No (test)data on mobility of the substance available. |
| SODIUM XYLENE SULFONATE (1300-72-7) | |
| Surface tension | 71 mN/m (20 °C, 90 %, EU Method A.5: Surface tension) |
| Ecology - soil | No (test)data on mobility of the substance available. |

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| BUTHOXYETHANOL (111-76-2) | |
|--|--|
| Surface tension | 65.03 mN/m (20 °C, 2 g/l) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.451 – 0.882 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

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| | | |
|----------------|-------------------|--------|
| SODIUM NITRITE | CAS-No. 7631-99-4 | 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.

| | | |
|----------------|-------------------|--------|
| SODIUM NITRITE | CAS-No. 7631-99-4 | 1 – 5% |
|----------------|-------------------|--------|

SODIUM NITRITE (7631-99-4)

| | |
|-----------|--------|
| CERCLA RQ | 100 lb |
|-----------|--------|

15.2. International regulations

No additional information available

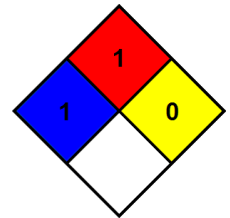
15.3. US State regulations

⚠ WARNING: This product can expose you to ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating
Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection : B - Safety glasses, Gloves

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.