

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 003200025
Print date: 04.06.2018
Version: 5-2

Blue Wonder Soot and Carbondeposit Remover
Revision date: 26.01.2018
Issue date: 26.01.2018

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

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

Article No. (manufacturer/supplier): 003200025
Identification of the substance or mixture: Blue Wonder Soot and Carbondeposit Remover
00595

1.2. Details of the supplier of the safety data sheet

Relevant identified uses

for cleaning

Uses advised against

There is no information available for use is discouraged facing.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Blue Wonder

Leidsevaartweg 1
NL-2106 NA Heemstede
The Netherlands

Telephone: +31(0)251-315683
E-mail info@bluewonder.com

Dept. responsible for information:

Blue Wonder +31(0)251-315683
E-mail (competent person): info@bluewonder.com

1.4. Emergency telephone number

National Poison phone number Information
Centrum (NVIC): +31 30-2748888
Exclusively intended for healthcare professionals in acute poisoning.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Corr. 1 / H314 skin corrosion/irritation Causes severe skin burns and eye damage.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms



Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P264 Wash hands thoroughly after handling.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P280 Wear protective gloves and eye/face protection.

contains:

ethoxylated fatty alcohol

Supplemental Hazard information (EU)

not applicable

2.3. Other hazards

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SECTION 3: Composition / information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Product description / chemical characterization

Description Cleaning agent, alkaline

Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification: // Remark	Wt %
229-912-9 10213-79-3	SODIUM METASILICATE PENTAHYDRATE Met. Corr. 1 H290 / Skin Corr. 1B H314 / STOT SE 3 H335	1 - 2,5
203-905-0 111-76-2 603-014-00-0	01-2119475108-36 2-butoxyethanol Acute Tox. 4 H332 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Skin Irrit. 2 H315	5 - 10
215-185-5 1310-73-2 011-002-00-6	01-2119457892-27 sodium hydroxide Skin Corr. 1A H314 / Met. Corr. 1 H290	0,5 - 1
160875-66-1	ethoxylated fatty alcohol Acute Tox. 4 H302 / Eye Dam. 1 H318	5 - 10
230-785-7 7320-34-5	Potassium pyrophosphate Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319	1 - 2,5

Additional information

Full text of classification: see section 16

Hazardous ingredients

Labelling for contents according to regulation (EC) No. 648/2004:

Wt %	Ingredient (Designation)
5 - 15 %	nonionic surfactants
< 5 %	phosphates
< 5 %	anionic surfactants

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. In all cases of doubt, or when symptoms persist, seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

Following skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Keep victim calm. Do NOT induce vomiting. Call a physician immediately. If medical advice is needed, have product container or label at hand.

4.2. Most important symptoms and effects, both acute and delayed

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In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Mammalian cells (with metabolic activation)

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Extinguishing powder, Carbon dioxide (CO₂), spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Wear suitable protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Do not breathe vapours. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Precautions against fire and explosion:

non-combustible liquids that cannot be assigned to any of the above storage classes

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use, Notice the directions for use on the label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

WEL, TWA: 123 mg/m³; 25 ppm

WEL, STEL: 246 mg/m³; 50 ppm

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BMGV, TWA: 240 mmol/mol creatinine
Remark: Butoxyacetic acid; urine; end of exposure or end of shift
sodium hydroxide
INDEX No. 011-002-00-6 / EC No. 215-185-5 / CAS No. 1310-73-2

WEL, STEL: 2 mg/m³

Additional information

TWA : long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

DNEL:

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (local), Workers: 89 mg/kg
DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg bw/day
DNEL long-term dermal (local), Workers: 75 mg/kg
DNEL long-term dermal (systemic), Workers: 75 mg/kg bw/day
DNEL acute inhalative (local), Workers: 246 mg/m³
DNEL acute inhalative (systemic), Workers: 663 mg/m³
DNEL long-term inhalative (systemic), Workers: 98 mg/m³
DNEL short-term oral (acute), Consumer: 13,4 mg/kg bw/day
DNEL long-term oral (repeated), Consumer: 3,2 mg/kg bw/day
DNEL acute dermal, short-term (local), Consumer: 44,5 mg/kg
DNEL acute dermal, short-term (systemic), Consumer: 44,5 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 38 mg/kg
DNEL acute inhalative (local), Consumer: 123 mg/m³
DNEL acute inhalative (systemic), Consumer: 426 mg/m³
DNEL long-term inhalative (local), Consumer: 49 mg/m³
DNEL long-term inhalative (systemic), Consumer: 49 mg/m³

PNEC:

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

PNEC aquatic, freshwater: 8,8 mg/l
PNEC aquatic, marine water: 0,88 mg/l
PNEC sediment, freshwater: 34,6 mg/kg
PNEC sediment, marine water: 3,46 mg/kg
PNEC, soil: 2,8 mg/kg
PNEC sewage treatment plant (STP): 463 mg/l

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

Occupational exposure controls

Respiratory protection

Not applicable.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material 0,4 mm Breakthrough time (maximum wearing time) 30 min

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear suitable protective clothing and gloves.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

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Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: Liquid
Colour: refer to label

Odour: characteristic

Odour threshold: not applicable

pH at 20 °C: 13,2

Melting point/freezing point: n. a.

Initial boiling point and boiling range: not determined

Flash point: not applicable
Method: DIN 53213-1 (08/2002: replaced by EN ISO 1523)

Evaporation rate: not applicable

Flammability (solid, gas):
Burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 1,1 Vol-%
Upper explosion limit: 10,6 Vol-%
Source: 2-butoxyethanol

Vapour pressure at 20 °C: 18,2823 mbar

Vapour density: not applicable

Relative density:
Density at 20 °C: 1,03 g/cm³
Method: ISO 2811, part 1

Solubility(ies):
Water solubility (g/L) at 20 °C: completely miscible

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: 231 °C
Source: 2-butoxyethanol

Decomposition temperature: not applicable

Viscosity at 20 °C: < 12 s 4 mm
Method: DIN 53211

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. Other information

Solid content (%): 8,19 Wt %

solvent content:
Organic solvents: 6 Wt %
Water: 79 Wt %

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

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Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

none

SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

2-butoxyethanol

oral, LD50, Rat: > 300 mg/kg

dermal, LD50, Rabbit: > 1000 mg/kg

inhalative (vapours), LC50, Rat: > 10 mg/l (4 h)

oral, LD50, Guinea pig: 1414 mg/kg

inhalative (vapours), LC0: > 3,1 mg/l (1 h)

dermal, LD50, Guinea pig: > 2000 mg/kg

Method: OECD 402

ethoxylated fatty alcohol

oral, LD50, Rat: > 500 mg/kg

skin corrosion/irritation; Serious eye damage/eye irritation

2-butoxyethanol

Skin, Rabbit (4 h)

Method: OECD 405

ethoxylated fatty alcohol

eyes

Respiratory or skin sensitisation

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

SECTION 12: Ecological information

overall evaluation

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. Toxicity

2-butoxyethanol

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Fish toxicity, LC50, Lepomis macrochirus (Bluegill): > 100 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1550 mg/l (48 h)
Method: OECD 202
Algae toxicity, ErC50, Desmodesmus subspicatus: > 100 mg/l
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1474 mg/l (96 h)
Algae, EC50, Pseudokirchneriella subcapitata: 1840 mg/l (72 h)
Method: OECD 201
Bacteria toxicity, EC0, Pseudomonas putida: 700 mg/l (16 h)

ethoxylated fatty alcohol
Daphnia toxicity, EC50: 10 - 100 mg/l (48 h)

Long-term Ecotoxicity

2-butoxyethanol
Fish toxicity, NOEL(C):, Brachydanio rerio (zebra-fish): > 100 mg/l (21 D)
Daphnia toxicity, NOEL(C):, Daphnia magna (Big water flea): 100 mg/l (21 D)
Method: OECD 211

12.2. Persistence and degradability

2-butoxyethanol
Activated sludge, Aerobic biological treatment: 90 % (28 D); evaluation Readily biodegradable (according to OECD criteria).
Method: OECD 301E/ EEC 92/69/V, C.4-B
ethoxylated fatty alcohol
: > 60 % (28 D)
Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

12.3. Bioaccumulative potential

2-butoxyethanol
Partition coefficient: n-octanol/water: 0,81 ; evaluation Low
Method: OECD 107
Bioaccumulation; Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

200129 Detergents containing hazardous substances

packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number

not applicable

14.2. UN proper shipping name

14.3. Transport hazard class(es)

not applicable

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14.4. **Packing group**

not applicable

14.5. **Environmental hazards**

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code

-

Sea transport (IMDG)

EmS-No.

not applicable

Air transport (ICAO-TI / IATA-DGR)

Further information:

Not sustaining combustion:

0

14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

SECTION 15: Regulatory information

15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation

Regulation (EC) No. 648/2004 (Detergents regulation)

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 130

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other information

Acid-/Alkali reserve (buffer capacity for mixtures with extreme pH values)

15.2. **Chemical Safety Assessment**

For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
203-905-0 111-76-2	2-butoxyethanol	01-2119475108-36
215-185-5 1310-73-2	sodium hydroxide	01-2119457892-27

SECTION 16: Other information

Full text of classification in section 3:

Met. Corr. 1 / H290
Skin Corr. 1B / H314
STOT SE 3 / H335

Corrosive to metals
skin corrosion/irritation
Specific target organ toxicity (single exposure)

May be corrosive to metals.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Acute Tox. 4 / H332
Acute Tox. 4 / H312
Acute Tox. 4 / H302

Acute toxicity (inhalative)
Acute toxicity (dermal)
Acute toxicity (oral)

Harmful if inhaled.
Harmful in contact with skin.
Harmful if swallowed.

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Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Skin Corr. 1A / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.