



Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/25/2019

Reviewed on 07/25/2019

1 Identification

- **Product Identifier**
- **Trade Name: Zero Resin**
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information
- **Product Description:** General Purpose Cleanser
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Flying Skull Plant Products
13896 S Fir Street, Ste. B
Oregon City, Oregon 97045
Phone: 888-770-8808
Fax: 503-256-2402
www.flyingskull.net
- **Emergency telephone number:** 888-770-8808

2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Warning
- **Hazard-determining components of labeling:**
Disodium Metasilicate
Alcohol C9-11
- **Hazard statements:**
H315+H320 Causes skin and eye irritation.
- **Precautionary statements:**
P264 Wash thoroughly after handling.
P280 Wear protective gloves.
P302+P352 If on skin: Wash with plenty of water.
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
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.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.
- **Unknown acute toxicity:**
This value refers to knowledge of known, established toxicological or ecotoxicological values.
5 % of the mixture consists of component(s) of unknown toxicity.
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

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· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

· **Chemical characterization:** Mixtures

· **Description:** Non-Regulated Material

· **Dangerous Components:**

CAS: 111-76-2 RTECS: KJ 8575000	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	<5%
CAS: 68439-46-3	Alcohol C9-11 ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	<5%
CAS: 6834-92-0	Disodium Metasilicate ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; STOT SE 3, H335	<5%
CAS: 8006-90-4 RTECS: SC6125000	Peppermint Essential Oil (Mentha Piperita) Flam. Liq. 4, H227; Eye Irrit. 2B, H320; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	<1%

· **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor if symptoms persist.

· **After skin contact:**

Wash with soap and water.

If skin irritation occurs, seek medical attention.

· **After eye contact:**

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Do not induce vomiting.

Rinse out mouth and then drink plenty of water.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

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5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
111-76-2	2-butoxyethanol	60 ppm
6834-92-0	Disodium Metasilicate	3.8 mg/m ³
· PAC-2:		
111-76-2	2-butoxyethanol	120 ppm
6834-92-0	Disodium Metasilicate	42 mg/m ³
· PAC-3:		
111-76-2	2-butoxyethanol	700 ppm
6834-92-0	Disodium Metasilicate	250 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:** Avoid contact with skin, eyes and clothing
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry place away from direct sunlight and sources of ignition.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

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8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
 The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
 At this time, the other constituents have no known exposure limits.

111-76-2 2-butoxyethanol	
PEL	Long-term value: 240 mg/m ³ , 50 ppm Skin
REL	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV	Long-term value: 97 mg/m ³ , 20 ppm BEI

- **Ingredients with biological limit values:**

111-76-2 2-butoxyethanol	
BEI	200 mg/g creatinine urine end of shift Butoxyacetic acid with hydrolysis

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**
 The usual precautionary measures for handling chemicals should be followed.
 Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Select glove material based on penetration times, rates of diffusion and degradation.

- **Material of gloves:**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
 The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

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· **Eye protection:**



Safety glasses recommended.

· **Limitation and supervision of exposure into the environment:** None

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid

Color: Amber

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value @ 20 °C (68 °F):** 11.5

· **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: ≥100 °C (≥212 °F)

· **Flash point:** None

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not applicable

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapor pressure @ 25 °C (77 °F):** 4.0 mm Hg

· **Density @ 20 °C (68 °F):** 1.03 g/cm³ (8.5954 lbs/gal)

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with:**

Water: Soluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic: Not determined.

Kinematic: Not determined.

· **Solvent content:**

VOC content: 0.42 lbs/gal

· **Other information:** No further relevant information available.

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10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Extreme Heat
- **Incompatible materials:** Acids, Strong Oxidizers
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
111-76-2 2-butoxyethanol		
Oral	LD50	470 mg/kg (Rat)
Dermal	LD50	220 mg/kg (rab)
Inhalative	LC50/4 h	2,174.91 mg/l (Rat)
6834-92-0 Disodium Metasilicate		
Oral	LD50	1,280 mg/kg (Rat)
8006-90-4 Peppermint Essential Oil (Mentha Piperita)		
Oral	LD50	2,490 mg/kg (Mouse) 2,446 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rat)
Inhalative	LC50/96 hours	7.379 mg/l (Green algae)

- **Primary irritant effect:**
- **On the skin:** Strong caustic effect on skin and mucous membranes.
- **On the eye:**
Causes serious eye irritation.
Strong irritant with the danger of severe eye injury.
- **Additional toxicological information:**
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

111-76-2	2-butoxyethanol	3
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- **NTP (National Toxicology Program):**
None of the ingredients are listed.

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**
None of the ingredients are listed.

None of the ingredients are listed.

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12 Ecological Information

· **Toxicity:**

· Aquatic toxicity:	
111-76-2 2-butoxyethanol	
EC50	1,815 mg/l (Water flea)
6834-92-0 Disodium Metasilicate	
EC50	247 mg/l (Water flea)
8006-90-4 Peppermint Essential Oil (Mentha Piperita)	
EC50	6.008 mg/l (Green algae)
	107.216 mg/l (Daphnia) (48 HR)
NOEC/NOEL	62.5 mg/l (Daphnia)

- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, IMDG, IATA** Non-Regulated Material
- **ADR/ADN** UN-
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.

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- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

<ul style="list-style-type: none"> · Section 355 (extremely hazardous substances):
None of the ingredients are listed.

<ul style="list-style-type: none"> · Section 313 (Specific toxic chemical listings):
111-76-2 2-butoxyethanol

<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.

<ul style="list-style-type: none"> · Hazardous Air Pollutants
None of the ingredients are listed.

· **California Proposition 65:**

<ul style="list-style-type: none"> · Chemicals known to cause cancer:
None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause developmental toxicity:
None of the ingredients are listed.

<ul style="list-style-type: none"> · New Jersey Right-to-Know List:
111-76-2 2-butoxyethanol

<ul style="list-style-type: none"> · New Jersey Special Hazardous Substance List: 	
111-76-2 2-butoxyethanol	CA, F2

<ul style="list-style-type: none"> · Pennsylvania Right-to-Know List:
111-76-2 2-butoxyethanol

<ul style="list-style-type: none"> · Pennsylvania Special Hazardous Substance List:
None of the ingredients are listed.

- **Carcinogenic categories:**

<ul style="list-style-type: none"> · EPA (Environmental Protection Agency): 	
111-76-2 2-butoxyethanol	NL

<ul style="list-style-type: none"> · TLV (Threshold Limit Value established by ACGIH): 	
111-76-2 2-butoxyethanol	A3

<ul style="list-style-type: none"> · NIOSH-Ca (National Institute for Occupational Safety and Health):
None of the ingredients are listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).



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Hazard pictograms:



Signal word: Warning

Hazard-determining components of labeling:

Disodium Metasilicate
Alcohol C9-11

Hazard statements:

H315+H320 Causes skin and eye irritation.

Precautionary statements:

- P264 Wash thoroughly after handling.
- P280 Wear protective gloves.
- P302+P352 If on skin: Wash with plenty of water.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- 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.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P337+P313 If eye irritation persists: Get medical advice/attention.

National regulations:

None of the ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of last revision/ revision number: 07/25/2019 / 4

Abbreviations and acronyms:

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety and Health
- OSHA: Occupational Safety & Health Administration
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- BEI: Biological Exposure Limit
- Flam. Liq. 4: Flammable liquids – Category 4
- Acute Tox. 4: Acute toxicity – Category 4



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Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106