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Unit 14, Duville Business Park, 8 Arum Lily Street, Durbanville, Cape Town, South Africa 7550
www.essentiallynatural.co.za (T) 021 976 9116 (E) support@essentiallynatural.co.za

Safety Data Sheet
SALIGUARD BDHA

Section 1 - IDENTIFICATION OF THE SUBSTANCE

1.1 Identification of the substance

• **Product Name:**	**SALIGUARD BDHA**
• **REACH Pre- Registration number:**	Not applicable. Quantity sell within Europe market is less than 1 tonne so REACH registration of constituents in product not required.

1.2 Relevant identified uses of the substances or mixture and used advised against

• **Recommended use:**	Preservative.
• **Recommended restrictions:**	None known

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture according to Regulation (EC) No 1272/2008 (CLP)

• **Human health hazard categories and codes:**	Acute oral toxicity	category 4
	Acute inhalation toxicity	category 4

2.2 Labelling according to Regulation (EC) No 1272/2008 (CLP)

• **Hazard Pictogram:**	**Signal Word: Warning**

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	 GHS07 Exclamation mark
• **Hazard Statements:**	H302: Harmful if swallowed. H332: Harmful if inhaled.
• **Precautionary Statements:**	P261 : Avoid breathing vapours. P264: Wash thoroughly after handling. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
2.3. Other hazards	Not known

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Constituent	CAS No.	EC No.	Concentration range	Remarks
benzyl alcohol	100-51-6	202-859-9	>=86.0 - < 88.0 % w/w	None
dehydracetic acid	520-45-6	208-293-9	>=7.5 - < 8.5 % w/w	None
water	7732-18-5	231-791-2	>=3.5 - < 6.5 % w/w	None

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid measures:

• **General measures:**	Remove contaminated clothing and shoes. Get medical attention if you feel unwell (show this label to doctor/physician if possible). Move out of dangerous area. Never give anything by mouth to an unconscious person.
• **Eye contact:**	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
• **Skin Contact:**	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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• **Inhalation** :	Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
• **Ingestion** :	Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

- Not defined

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

- Get medical attention immediately if any symptoms occur.

Section 5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media: water spray (fog), foam, dry chemical or CO2
Unsuitable extinguishing media: water jet

5.2. Special hazards arising from the substance or mixture:

Hazards from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst.

Products of Combustion: Decomposition products may include the following materials: carbon oxides.

5.3. Advice for fire-fighters

Special precautions for fire fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark: Never use water jet. Cool closed containers exposed to fire with water.

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Section 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapor or mist. Provide adequate ventilation

• **Personal Protective Equipment:**	Put on appropriate personal protective equipment (see section Exposure controls / personal protection).
• **Skin Protection:**	Avoid contact with eyes and skin by use of protective equipment. .(as mention in section 8.2)
• **Respiratory Protection:**	Wear personal respiratory protective equipment. .(as mention in section 8.2)
• **Work Practices:**	Do not eat, drink, and smoke at working place. Avoid contact with skin and eye. Take care on disposal of product.

6.2. Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning:

For small spill:	• Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal
For large spill:	• Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section: Disposal considerations). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see General Information for emergency contact information and section: Disposal considerations for waste disposal.

Section 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

- Put on appropriate personal protective equipment (see section: Exposure controlles/ personal protection).
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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- Workers should wash hands and face before eating, drinking and smoking.
- Do not breathe vapour or mist.
- Do not ingest.
- Avoid contact with eyes, skin and clothing.
- Use only with adequate ventilation.
- Wear appropriate
- Respirator when ventilation is inadequate.
- Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
- Empty containers retain product residue and can be hazardous.

7.2 Conditions for safe storage:

- Store in accordance with local regulations.
- Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section Stability and reactivity) and food and drink.
- Keep container tightly closed and sealed until ready for use.
- Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Do not store in unlabelled containers.
- Use appropriate containment to avoid environmental contamination.

Remarks: Ensure effective ventilation. Vent waste air only via suitable separators or scrubbers. Take precautionary measures against electrostatic discharges.

7.3 Specific end use(s):

As mention in section 1.2.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Not Applicable.

8.2 Exposure Control:

• **Engineering measures:**	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
• **Respiratory Protection:**	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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	Recommended: Combination filter, e.g., DIN 3181 ABEK if product forms vapours.
• **Hand Protection:**	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations Recommended: (< 1 hour) Butyl rubber - IIR, Fluorinated rubber - FKM, Polyvinyl chloride - PVC.
• **Eye protection:**	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Safety glasses.
• **Skin protection:**	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear protective clothing.
• **Hygiene measures**	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
• **Environmental exposure controls**	Technical measures: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9 – PHYSICAL & CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties:

• **Appearance:**	Pale yellow clear liquid
• **Odour:**	Not available
• **Odour threshold:**	Not available
• **pH:**	Not available
• **Melting point/Freezing point:**	Not available
• **Initial boiling point and boiling range:**	>200°C (estimated)

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• **Flash point:**	Not available
• **Evaporation rate:**	Not available
• **Flammability:**	Not available
• **Upper/lower flammability or explosive limits:**	Not available
• **Vapour pressure:**	Not available
• **Vapour density:**	Not available
• **Relative density:**	1.05 to 1.08 at 20 deg
• **Solubility(ies):**	Slightly soluble in water
• **Partition coefficient: n-octanol/water:**	Not available
• **Auto-Ignition Temperature:**	Not available
• **Decomposition temperature:**	Not available
• **Viscosity:**	Not available
• **Explosive properties:**	No
• **Oxidizing properties:**	No

9.2 Other information: None

Section 10 - STABILITY AND REACTIVITY

• Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
• Chemical stability:	The product is stable.
• Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
• Conditions to avoid:	No specific data.
• Hazardous decomposition products:	No hazardous decomposition products if stored and handled as prescribed/indicated.
• Incompatible materials:	No specific data.

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

- Product shows acute oral and inhalation toxicity due to its composition:

Substance	Organism	Test type	Route	Reported dose
benzyl alcohol	Rat	Acute Oral toxicity	Oral	LD50: For male 1.55 mL/kg bw
	Rat	Acute Inhalation toxicity	inhalation	LC50: For male and female

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					animals were>4178 mg/m³ air	

11.2 Irritation Corrosion:

- **Eye**: The product does not cause eye irritation
- **Skin:** The product does not cause skin irritation

11.3 Sensitization

- **Skin:** The product does not cause Skin sensitization.

11.4 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

• **Carcinogenicity:**	Not classified as carcinogen.
• **Mutagenic effects:**	Not classified as a mutagen.
• **Reprotoxic effects:**	Not found to be reprotoxic.

11.5 Other toxic effects on humans:

• **Inhalation:**	Harmful if inhaled
• **Eyes:**	No data available
• **Ingestion:**	Harmful if swallowed
• **Chronic toxicity:**	No data available

11.6 NIOSH Immediately Dangerous to Life or Health Concentration (IDLH):

- No information available for the mixture

11.7 Specific target organ toxicity:

• **Single exposure:**	No experimental or epidemiological sufficient evidence for specific target organ toxicity
• **Repeated exposure:**	No experimental or epidemiological sufficient evidence for specific target organ toxicity

Section 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- Data not available for product

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12.2 Persistence and degradability:
• The product was found to be readily biodegradable.
12.3 Bioaccumulative potential:
• The product has a low potential to bioaccumulate due to its low log Pow value.
12.4 Mobility in soil:
• Data not available.
12.5 Results of PBT and vPvB assessment:
• As none of the criteria laid down in Annex XIII of the REACH Regulation are fulfilled, Benzyl alcohol is neither a PBT nor a vPvB-substance. So product is not PBT / vPvB
12.6 Other adverse effects:
• None

Section 13 - DISPOSAL CONSIDERATIONS:	
• **Disposal of product:**	Examine possibilities for re-utilisation. Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).
• **Disposal of Packaging:**	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Section 14 - TRANSPORT INFORMATION

The product is not classified hazardous to transport as per Land transport (ADR/RID), Marine transport (IMDG), Air transport ICAO/IATA, and Department of Transportation (DOT). Keep away from foodstuffs.

• **UN Number:**	Not applicable
• **UN proper shipping name:**	Not regulated
• **Transport hazard class:**	Not applicable. Not classified as dangerous for transport.
• **Packing group:**	Not regulated
• **Environmental hazards:**	Prevent disposal into the drains.

Section 15 - REGULATORY INFORMATION

15.1 Other regulatory information:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available
Inventory Status: Listed in: TSCA (United states), EINECS (EU), NZIoC (New zealand), DSL (Canada), PICCS (Philippines), AICS (Australia), Japan (ENCS)..

- **HMIS (Hazardous Materials Identification system) classification**

Health	**1**
Fire	**1**
Physical Hazard	**0**
Personal Protection	**H**

1 = Irritation or minor reversible injury possible.

1 = Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F.

0= Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

H = 

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• **NFPA** : **(National Fire Protection Association)**	**Health** 1 **Fire** 1 **Reactivity** 0 1 = Exposure would cause irritation with only minor residual injury 1 = Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur (e.g. mineral oil). Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93 °C (200 °F). 0=Normally stable, even under fire exposure conditions, and are not reactive with water.

15.2 Chemical Safety Assessment:

- A chemical safety assessment has been carried out for the substance or the mixture by the supplier (LR)- No

Section 16 – OTHER INFORMATION

16.1 Technical Advice:

- Use data given in this Safety Data Sheet and make an inventory list of all chemicals used in the factory
- Create a Register for Workplace Chemicals;
- Set priorities concerning the safety in the organization
- Create emergency plans for the assessed hazards;
- Organize occupational health care and regular surveys as necessary;
- Organize contacts with authorities/laboratories to create a monitoring system for chemical hazards, and to reliably measure and/or estimate occupational exposures to chemicals when needed;
- Start collecting case studies of accidents and sickness records in the enterprise to create a basis for priority measures in the control of hazards;
- Involve workers in safety organizations, such as the system of Safety Representatives and Committees.
- Do regular inspection using checklists made for the particular chemicals and chemical processes in use;
- Mark and label all chemicals;
- Keep at hand an inventory list of all chemicals handled in the place of work together with a collection of Chemical Safety Data Sheets for these chemicals;
- Train workers to read and understand the Chemical Safety Information, including the health hazards and routes of exposure; train them to handle dangerous chemicals and processes with respect;

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• Plan, develop and choose the safe working procedures;
• Reduce the number of people coming into contact with dangerous chemicals;
• Reduce the length of time and/or frequency of exposure of workers to dangerous chemicals;
• Train workers to know and understand the emergency procedures;
• Equip and train workers to use personal protective equipment properly after everything possible has been done to eliminate hazards by means of other methods;
16.2 List of relevant R phrases: R20/22 - Harmful by inhalation and if swallowed