

Benzyl Alcohol, Sodium Benzoate, Potassium Sorbate

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier:

SKU 90058

INCI Name Benzyl Alcohol, Water, Potassium Sorbate, Sodium Benzoate

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Use: Preservative for cosmetic use

1.3 Details of the Supplier of the Safety Data Sheet:

Distributer: Shay and Company

10639 SE Fuller Rd Milwaukie OR 97222

Information Phone Number: 503-653-1155

E-mail info@shayandcompany.com

1.4 Emergency Telephone Number:

Emergency Spill Information 503-653-1155 Shay and Company

(800) 222-1222 (National Poison Control Center)

SDS Date of Revision: July 31, 2023

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

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

Acute toxicity, category 4; H332 Eye irritation, category 2; H319

For full text of H- and P- phrases: see SECTION 16

2.2 Label Elements: Labeling according to Regulation (EC) No 1272/2008 [CLP]



Signal word:

Warning

Hazard Statements:



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H332, H319 Precautionary Statements: P261, P280, P312

2.3 Other Hazards: On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%. The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	EINECS#	REACH Registration	CLP Classification (EC) No 1272/2008	%
			Number		
Benzyl Alcohol	100-51-6	202-859-9	01-	Acute Tox. 4 H302, Acute	50%
			2119492630-	Tox. 4 H332, Eye Irrit. 2	
			XX-XXXX	H319 .	
(E, E) -esa-2,4-	24634-61-5	246-376-1	01-	Eye Irrit. 2 H319	15%
potassium			2119950315-		
dienoate			XX-XXXX		
Sodium Benzoate	532-32-1	208-534-8	01-	Eye Irrit. 2 H319	10%
			2119460683-		
			XX-XXXX		

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

Skin Contact: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

Inhalation: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

Ingestion: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorized by a doctor.

4.2 Most Important symptoms and effects, both acute and delayed:

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5: FIRE FIGHTING MEASURES



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5.1 Suitable Extinguishing Media:

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

Unsuitable extinguishing media

None in particular.

5.3 Special Hazards Arising from the Substance or Mixture:

Hazards caused by exposure in the event of fire:

Do not breathe combustion products.

5.4 Advice for Fire-Fighters:

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Special Protective Equipment for Fire-Fighters:

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Block the leakage if there is no hazard. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental Precautions:

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and Material for Containment and Cleaning Up:

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to Other Sections:

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: HANDLING AND STORAGE



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7.1 Precautions for Safe Handling:

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details. Storage class TRGS 510 (Germany): 12

7.3 Advice on general occupational hygiene:

- (a) not to eat, drink and smoke in work areas.
- (b) to wash hands after use; and
- (c) to remove contaminated clothing and protective equipment before entering eating areas.

7.4 Specific end use(s): Information not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Benzyl Alcohol

Normal value in fresh	water					1	mg/l	
Normal value for mar	ine water se	diment				5,27	mg/kg	
Normal value for water	er, intermitte	ent release				2,3	mg/l	
Normal value of STP	microorgan	isms				39	mg/l	
Normal value for the	terrestrial co	mpartment				0,456	mg/kg	
lealth - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on wor	kers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral	VND	25	VND	5				
		mg/kg		mg/kg				
Inhalation	VND	95,5	VND	19,1	VND	450	VND	90
		mg/m3		mg/m3		mg/m3		mg/m3
Skin	VND	28,5	VND	5,7	VND	47	VND	9,5
		mg/kg		mg/kg		mg/kg		mg/kg

(E,E) -esa-2,4-potassium dienoate



Benzyl Alcohol, Sodium Benzoate, Potassium Sorbate

lormal value in frest	n water					1	mg/l	
lormal value in mari	ne water					0,1	mg/l	
Normal value for fres	h water sedir	nent				3,6	mg/kg	
Normal value for ma	rine water sed	diment				0,36	mg/kg	
Normal value for wat	er, intermitter	nt release				4,8	mg/l	
Normal value of STP	microorganis	sms				10	mg/l	
Normal value for the	terrestrial cor	mpartment				1,67	mg/kg	
alth - Derived no-eff	ect level - Di	NEL / DMEL						
	Effects on	consumers			Effects on wor	kers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral	VND	VND	VND	2	VND	VND	VND	VND
				mg/kg bw/d				
Inhalation	VND	VND	26,08	52,17	VND	VND	VND	17,63
			mg/m3	mg/m3				mg/m3
	17	20	20	_	VND	VND	NPI	40
Skin								
Skin	mg/cm2	mg/kg bw/d	mg/kg bw/d					mg/kg

Sodium Benzoate

Normal value in fresh	n water					0,13	mg/l	
Normal value in marine water							mg/l	
Normal value for fresh water sediment Normal value for marine water sediment						1,76	mg/kg/d	
						0,176	mg/kg/d	
Normal value for wat	er, intermitte	ent release				305000	mg/l mg/l	
Normal value of STP	microorgan	isms				10		
Normal value for the	food chain (secondary poiso	ning)			300	mg/kg	
Normal value for the	terrestrial co	ompartment				0,276	mg/kg/d	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on wor	kers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral	VND	VND	VND	25 mg/kg/d	VND	VND	VND	VND
Inhalation	VND	VND	1,3 mg/m3	2,1 mg/m3	VND	VND	6,3 mg/m3	10,4 mg/m3
Skin	VND	VND	2.7	20.8	VND	VND	4.5	34,7

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2 Exposure Controls

8.2.1 Engineering measures: As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards. Provide an emergency shower with face and eye wash station.

8.2.2 Individual protection measures, such as personal protective equipment:

<u>Hand Protection:</u> Protect hands with category III work gloves (see standard EN 374). The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.



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SKIN PROTECTION: Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Respiratory Protection: If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited. If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529

Eye Protection: Wear airtight protective goggles (see standard EN 166).

<u>Environmental Exposure Controls:</u> The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Physical State: Appearance: Liquid	pH (Conc. 100%): 8
Color: Yellowish	Kinematic Viscosity: Not available
Odor: characteristic	Solubility: soluble in water
Melting Point: Not available	
Freezing point: Not available	Partition coefficient: n-octanol/water: Not available
Initial Boiling Point & Range: Not available	Vapor Pressure: Not available
Flammability (Liquids, solid, gas): Not available	Density and or Relative density (20 deg C): 1.11 g/cm3
Lower and upper Explosion Limit: Not available	Relative Vapor Density: Not available
Flash Point: Not available	Particle characteristics: Not applicable
Auto-ignition temperature (gasses and liquid):	
Not available	
Decomposition temperature: Not available	

9.2 Other physical chemical Information:

Information not available

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical Stability:

The product is stable in normal conditions of use and storage. (E,E) -esa-2,4-potassium dienoate is stable up to 210 °C.

10.3 Possibility of Hazardous Reactions:

No hazardous reactions are foreseeable in normal conditions of use and storage.

Benzyl alcohol

May react dangerously with: strong oxidizing agents.

10.4 Conditions to Avoid:

None in particular. However the usual precautions used for chemical products should be respected.

SODIUM BENZOATE

Avoid exposure to: heat, moist air.

10.5 Incompatible Materials:

Benzyl alcohol

Incompatible with: oxidising agents, strong acids, metals.

(E,E) -esa-2,4-potassium dienoate

Incompatible with: oxidizing agents.

SODIUM BENZOATE

Incompatible with: acids, oxidizing agents, iron salts.

10.6 Hazardous Decomposition Products:

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

Benzyl alcohol

When heated to decomposition releases: carbon oxides, nitric oxide.

SODIUM BENZOATE

When heated to decomposition releases: carbon oxides, sodium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION



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In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Metabolism, toxicokinetics, mechanism of action and other information:

Information not available

Information on likely routes of exposure:

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Information not available

Interactive effects:

Information not available

ACUTE TOXICITY	
ATE (Inhalation - mists / powders) of the	
mixture:	3,0 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
	Not classified (no significant
ATE (Dermal) of the mixture:	component)
Benzyl alcohol	
LD50 (Dermal)	2000 mg/kg rabbit
LD50 (Oral)	1620 mg/kg rat
LC50 (Inhalation vapours)	>4178 mg/l/4h rat OECD 403
	11 mg/l estimate from table
	3.1.2 of Annex I of the CLP
	(figure used for calculation of
	the acute toxicity estimate of
STA (Inhalation vapours)	the mixture)
(5.5) 2.4	
(E,E) -esa -2,4-potassium dienoate	
LD50 (Dermal)	>2000 mg/kg rat read across
LD50 (Oral)	10500 mg/kg rat read across
Sodium Benzoate	
Journal Delizoate	>2000 mg/kg rabbit read
LD50 (Dermal)	across
LD50 (Oral)	3140 mg/kg rat



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LC50 (Inhalation mists/powders)	>12,2 mg/l/4h rat read across

SKIN CORROSION / IRRITATION:

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION:

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION:

Does not meet the classification criteria for this hazard class

Respiratory sensitization:

Information not available

Skin sensitization:

Information not available

GERM CELL MUTAGENICITY:

Does not meet the classification criteria for this hazard class

CARCINOGENICITY:

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY:

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility:

Information not available

Adverse effects on development of the offspring:

Information not available

Effects on or via lactation:

Information not available

STOT - SINGLE EXPOSURE:

Does not meet the classification criteria for this hazard class

Target organs:

Information not available

Route of exposure:

Information not available

STOT - REPEATED EXPOSURE:

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2 Information on other hazards



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Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12: ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1 Ecotoxicity

Components:

Benzyl alcohol		
LC50	For fish	460 mg/l/96h Pimephales promelas EPA OPP 72-1
EC50	For Crustacea	230 mg/l/48h Daphnia magna OECD 202
	For Algae/Aquatic	
EC 50	Plants	770 mg/l/72h Pseudokirchneriella subcapitata OECD 201
Chronic NOEC	For Crustacea	51 mg/l Daphnia magna OECD 211
	For Algae/Aquatic	
Chronic NOEC	Plants	310 mg/l Pseudokirchneriella subcapitata OECD 201
(E,E) -esa-2,4	-potassium dienoate	
LC 50	For fish	> 500 mg/l/96h Danio rerio
EC50	For Crustacea	982 mg/l/48h Daphnia magna
	For Algae/Aquatic	-
EC50	Plants	480 mg/l/72h Desmodesmus subspicatus
Chronic NOEC	For Crustacea	50 mg/l Daphnia magna read across
	For Algae/Aquatic	
Chronic NOEC	Plants	105 mg/l Desmodesmus subspicatus
Sodium Benzo	ate	
LD50	For Fish	> 484 mg/l/96h Pimephales promelas EPA OPP 72-1
EC50	For Crustacea	> 100 mg/l/48h Daphnia magna
	For Algae/Aquatic	
EC50	Plants	> 100 mg/l/72h Pseudokirchneriella subcapitata OECD 201
Chronic NOEC	For Fish	10 mg/l Brachydanio rerio
Chronic NOEC	For Crustacea	51 mg/l/21d Daphnia magna

12.2 Persistence and degradability

Compon	ents:	
Benzyl Al	lcohol	
	Solubility in Water	40 g/l @ 25°C
	Readily degradable	95 -97 % in 21 days (OECD 301A)
E,E) -esa dienoate	-2,4-potassium	



Benzyl Alcohol, Sodium Benzoate, Potassium Sorbate

	Solubility in water	1,95 g/l 20°C
	Readily degradable	74,9 28d OECD 301D read across
Sodium B	enzoate	
	Solubility in water	556 g/l 20°C
	Readily degradable	

12.3

Bioaccumulative Potential	
Components:	
Benzyl alcohol:	
Partition coefficient: n-octanol/water	1,05 Log Kow @ 20°C
BCF	1,37 L/Kg ww QSAR
(E,E) -esa-2,4-potassium	
dienoate:	
Partition coefficient: n-octanol/water	-1,72 @20°C OECD 117 read across
BCF	0,007 aquatic species EU TGD read across
Sodium Benzoate:	
Partition coefficient: n- octanol/water	1,88 read across

12.4

Mobility in So	oil	
Components:		
Benzyl alcohol	l:	
	Partition coefficient: soil/water	1,1221 l/kg @ 20°C QSAR
(E,E) -esa-2,4 dienoate:	-potassium	
	Partition coefficient: soil/water	-1,82 @ 20°C read across

12.5 Results of PBT and vPvB Assessment:

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6 Endocrine Disrupting Properties:



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Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation

12.7 Other Adverse Effects:

Information not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14: TRANSPORT INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Roa (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

	US DOT	EU land transport (ADR/RID/ADN)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
14.1	N/A	N/A	N/A	N/A
UN Number OR ID				
14.2	N/A	N/A	N/A	N/A
UN Proper Shipping Name				
14.3	N/A	N/A	N/A	N/A
Transport Hazard				
Class(s)				
14.4	N/A	N/A	N/A	N/A
Packing Group				
14.5	N/A	N/A	N/A	N/A
Environmental Hazards				
14.6	N/A	N/A	N/A	N/A
Special Precautions for user				
14.7	N/A	N/A	N/A	N/A
Maritime transport in bulk				
according to IMO instruments				

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:



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EU EINECS/ELINCS/NLP:	All of the components of this product are listed on the EINECS Inventory.			
Canada DSL/NDSL:	All of the components of this product are listed on the DSL.			
US TSCA	All of the components of this product are listed on the US TSCA.			
China IECSC:	All of the components of this product are listed on the IECSC.			
Japan ENCS:	All of the components are listed on the Japanese Existing and New Chemical			
	Substances Inventory.			
Philippine PICCS:	All of the components of this product are listed on the PICCS.			
Australia AICS:	All of the components of this product are listed on the AICS.			

WGK 1: Low hazard to waters

15.2 Chemical Safety Assessment:

A chemical safety assessment has been performed for the following contained substances Benzyl alcohol SODIUM BENZOATE

SECTION 16: OTHER INFORMATION

16.1 Indication of Changes

GHS_CLP SDS - version 5 on August 6, 2024 - disclaimer/address

GHS_CLP SDS - version 4 on June 7, 2024: new logo

GHS_CLP SDS - version 3 on July 31, 2023

GHS_CLP SDS - version 2 on June 23, 2017

GHS_CLP SDS - version 1 on July 29, 2015

16.2 List of Relevant CLP Phrases for reference (See Section 2 and 3)

R- phrases (number and full text):

Hazard Phrases:

H332: Harmful if inhaled

H319: Causes serious eye irritation

P261: Avoid breathing dust / fume / gas / mist / vapours / spray

P280: Wear eye protection/face protection

P312: If you feel unwell, call a POISON CENTER/doctor



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16.3 Please note Shay and Company does not test on animals. Data provided within this documents has been applied from already accessible information from Public Domain and pre-existing information that is widely available.

16.4 Disclaimer

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