

1 Identification

- **Product identifier**
- **Trade name:** Berry
- **Article number:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Air freshener.
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
West Sanitation Services, Inc.
Dba Aerowest International
2158 Beaumont Drive
Baton Rouge, LA 70806
(225) 302-5570
- **Emergency number:**
Chemtrec 800-424-9300



2 Hazard(s) identification

- **Classification of the substance or mixture**
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07

- **Signal word:** Warning
- **Hazard-determining components of labeling:**
ethyl 2,3-epoxy-3-phenylbutyrate
piperonal
- **Hazard statements:**
H317 May cause an allergic skin reaction.
- **Precautionary statements:**
P280 Wear protective gloves and eye protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P363 Wash contaminated clothing before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Classification system**
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 1
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 1
Reactivity = 0

- **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Components:**

77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate	20-<25%
	⚠ Skin Sens. 1B, H317	
100-51-6	benzyl alcohol	5-<10%
	⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2A, H319	
105-54-4	ethyl butyrate	2.5-5%
	⚠ Flam. Liq. 3, H226	
	⚠ Skin Irrit. 2, H315; STOT SE 3, H335	
928-96-1	cis-hex-3-en-1-ol	1-2.5%
	⚠ Flam. Liq. 3, H226	
	⚠ Eye Irrit. 2A, H319	
4940-11-8	2-ethyl-3-hydroxy-4-pyrone	1-2.5%
	⚠ Acute Tox. 4, H302	
140-11-4	benzyl acetate	1-2.5%
5471-51-2	4-(4-hydroxyphenyl)butan-2-one	1-2.5%
	⚠ Acute Tox. 4, H302	
100-52-7	benzaldehyde	1-2.5%
	⚠ Acute Tox. 4, H302	
	Flam. Liq. 4, H227	
121-32-4	3-ethoxy-4-hydroxybenzaldehyde	1-2.5%
	⚠ Eye Irrit. 2A, H319	
7452-79-1	ethyl 2-methylbutyrate	1-2.5%
	⚠ Flam. Liq. 3, H226	
120-57-0	piperonal	0.1-<1%
	⚠ Skin Sens. 1, H317	
121-33-5	vanillin	0.1-1%
	⚠ Eye Irrit. 2A, H319	

- **Additional information:**

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

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For the wording of the listed Hazard Statements refer to section 16.

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4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation or rash occurs: Get medical advice/attention.
- **After eye contact:**
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:** Headache
- **Danger:**
Repeated exposure may cause skin dryness or cracking.
May cause sensitisation by skin contact.
- **Indication of any immediate medical attention and special treatment needed:**
If necessary oxygen respiration treatment.
Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information:** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

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· **Methods and material for containment and cleaning up:**

Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.

· **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.

7 Handling and storage

· **Handling**

· **Precautions for safe handling:** Use only in well ventilated areas.
· **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:**

Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:** Store away from oxidizing agents.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.

· **Specific end use(s):** No relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

100-51-6 benzyl alcohol

WEEL (USA)	Long-term value: 10 ppm
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140-11-4 benzyl acetate

TLV (USA)	Long-term value: 61 mg/m ³ , 10 ppm
EL (Canada)	Long-term value: 10 ppm
EV (Canada)	Long-term value: 10 ppm
LMPE (Mexico)	Long-term value: 10 ppm
A4	

100-52-7 benzaldehyde

WEEL (USA)	Short-term value: 4 ppm Long-term value: 2 ppm DSEN
EV (Canada)	Short-term value: 17 mg/m ³ , 4 ppm

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121-33-5 vanillin

WEEL (USA) Long-term value: 10 mg/m³

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Use only in well ventilated areas.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**
Not required under normal conditions of use.
Use suitable respiratory protective device in case of insufficient ventilation.
For large spills, respiratory protection may be advisable.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**



Safety glasses

- **Body protection:**
Not required under normal conditions of use.
Protection may be required for spills.
- **Limitation and supervision of exposure into the environment** No special requirements.
- **Risk management measures** No special requirements.

9 Physical and chemical properties

Information on basic physical and chemical properties

- **Appearance:**
- **Form:** Liquid on inert carrier material
- **Color:** Not determined.
- **Odor:** Pleasant
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** Not determined.
- **Flash point:** >94 °C (>201 °F)
- **Flammability (solid, gaseous):** Not applicable.

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· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits Lower: Upper:	Not determined. Not determined.
· Oxidizing properties:	Non-oxidizing.
· Vapor pressure:	Not applicable.
· Density: · Relative density: · Vapor density: · Evaporation rate:	Not determined. Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity Dynamic: Kinematic:	Not determined. Not determined.
· Other information	No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:**
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and oxidizing agents.
- **Conditions to avoid:**
Store away from oxidizing agents.
Excessive heat.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

100-51-6 benzyl alcohol

Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

14901-07-6 4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one

Oral	LD50	4590 mg/kg (rat)
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4940-11-8 2-ethyl-3-hydroxy-4-pyrone

Oral	LD50	1150 mg/kg (rat)
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5471-51-2 4-(4-hydroxyphenyl)butan-2-one

Oral	LD50	1320 mg/kg (rat)
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100-52-7 benzaldehyde

Oral	LD50	1300 mg/kg (rat)
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· Primary irritant effect:

· **On the skin:** Based on available data, the classification criteria are not met.

· **On the eye:** Based on available data, the classification criteria are not met.

· **Sensitization:** Sensitization possible through skin contact.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer):

140-11-4	benzyl acetate	3
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· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.
Inhalation.
Eye contact.
Skin contact.

· **Repeated dose toxicity:** Repeated exposure may cause skin dryness or cracking.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:** Based on available data, the classification criteria are not met.

· **Reproductive toxicity:** Based on available data, the classification criteria are not met.

· **STOT-single exposure:** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:** Based on available data, the classification criteria are not met.

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12 Ecological information

- **Toxicity**

- **Aquatic toxicity**

Toxic to aquatic life.

77-83-8 ethyl 2,3-epoxy-3-phenylbutyrate

LC50	4.2 mg/l (Oncorhynchus mykiss) (96h OECD Guideline 203 (Fish, Acute Toxicity Test))
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- **Persistence and degradability** No relevant information available.

- **Bioaccumulative potential:** No relevant information available.

- **Mobility in soil:** No relevant information available.

- **Additional ecological information**

- **General notes:**

Toxic for aquatic organisms

Do not allow product to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Avoid transfer into the environment.

- **Other adverse effects:** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Smaller quantities can be disposed of with household waste.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**

· DOT, ADR, IMDG, IATA

Not regulated.

- **UN proper shipping name**

· DOT, ADR, IMDG, IATA

Not regulated.

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· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	
· Class	Not regulated.
· Packing group	
· DOT, ADR, IMDG, IATA	Not regulated.
· Environmental hazards	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not regulated when carried in single or combination packaging containing a net quantity of 5L or less for liquids or 5 kg or less for solids per the following: DOT: 171.4(2) ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**
- **Section 302 (extremely hazardous substances):**
- None of the ingredients are listed.
- **Section 304 (emergency release notification):**
- None of the ingredients are listed.
- **Sections 311/312 (hazardous chemical threshold planning quantity in pounds):**
- None of the ingredients are listed.
- **Section 355 (extremely hazardous substances):**
- None of the ingredients are listed.
- **Section 313 (Specific toxic chemical listings):**
- None of the ingredients are listed.
- **TSCA (Toxic Substances Control Act)**
- All ingredients are listed.

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· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer):**

140-11-4 benzyl acetate

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· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

· **Canadian substance listings**

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 1%):**

123-11-5 anisaldehyde

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 01/22/2016 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit

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Flam. Liq. 3: Flammable liquids, Hazard Category 3
Flam. Liq. 4: Flammable liquids, Hazard Category 4
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

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