



Grape MSDS

SECTION 1: IDENTIFICATION

Product Identifier: FLV 100590
Product Name: Flavorah Grape Flavor

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

Recommended use: Not for personal use in this form
Intended to be used for further processing in the E-Cigarette Industry

Details of the supplier of the safety data sheet

McKnight Standard LLC
Flavorah
PO Box 2624
Woodinville, WA

Information: 1 (844) 358-8273

Emergency : For Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300

SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture

Flammable Liquids Category 1

Signal Word

DANGER



Hazard Statements

H226 Flammable Liquid and Vapor
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No Smoking
P280 Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 If on skin (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower
P370+P378 In case of fire use appropriate fire extinguishers for fire control.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Other hazards

OSHA HCS 2012

WARNING: CONTAINS VOLATILE FLAVORING CHEMICALS; BREATHING THESE CHEMICALS IN THE WORKPLACE
MAY LEAD TO SEVERE LUNG DAMAGE

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of aromatic substances.



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Chemical Name	CAS Number	% Weight
BENZALDEHYDE	100-52-7	<1%
BUTYRIC ACID	107-92-6	<1%
ETHYLACETATE	141-78-6	1-3%
ISOBUTYRICACID	79-31-2	<1%

See Section 11 for Toxicological Information.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

- Inhalation:** Move victim to fresh air. Individuals showing evidence of inhalation exposure should be taken to an uncontaminated area. Obtain medical attention immediately.
- Eyes:** Irrigate the eyes with water for at least 20 minutes; obtain medical attention if irritation persists.
- Skin:** Remove contaminated clothing. Wash skin with large volumes of water. If irritation persists seek medical attention.
- Ingestion:** In the event of accidental ingestion, rinse mouth with water. Give up to half a pint of milk or water. Obtain medical attention immediately.

Most important symptoms and effects, both acute and delayed

No information available on the product itself

Indication of any immediate medical attention and special treatment needed

None known

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media Regular foam, carbon dioxide, dry chemical
Avoid inhalation of smoke and fumes

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards Closed containers may build up pressure if exposed to heat. Vapors form explosive mixtures with air and may travel to a source of ignition and flash back.

Advice for Firefighters No specific advice



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid skin contamination and avoid inhalation of vapors.
Suitable Extinguishing Media	Same as above
Environmental precautions	Avoid run-off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures	Stop leak if you can do it without risk. SMALL SPILLS: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Wear PPE according to section 8. LARGE SPILLS: Dike far ahead of liquid spill for later disposal. Call HAZMAT team. Spillages should be disposed of in accordance with Governmental Regulations.
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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Handling	Avoid contact with skin and eyes. Wear adequate hand protection, gloves, eye and face protection. Good personal washing routines should be followed Ensure adequate local and general ventilation where product is used. Avoid sources of ignition; no smoking Avoid exposure to high temperatures during processing
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Conditions for safe storage, including any incompatibilities

Storage	It is best practice to store in closed, preferably full, containers away from heat sources, and protected from extremes of temperature.
Incompatible Materials or Ignition Sources	Keep away from heat, ignition sources.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Chemical Name	CAS Number	NIOSH
BENZALDEHYDE	100-52-7	Not Established
BUTYRIC ACID	107-92-6	Not Established
ETHYLACETATE	141-78-6	TWA 400 ppm, 1400 mg/m3
ISOBUTYRICACID	79-31-2	Not Established

Exposure Controls

Engineering Measures/Controls	Adequate ventilation systems as needed to control concentrations of airborne contaminants. Avoid exposure to high temperature during processing.
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Personal Protective Equipment

Pictograms



Respiratory

Breathing of vapors or dust particles may be hazardous. In case of insufficient ventilation, wear suitable NIOSH approved respiratory equipment.

Eye/Face

Wear safety glasses

Hands

Adequate protective gloves should be worn.

Skin/Body

Wear protective clothing, overall if necessary to limit the odor contamination of personal clothing. Individual washing routines should be followed after any potential contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	CLEAR, YELLOW, MOBILE
FLAVOR	GRAPE
SG	1.002 ± .01
RI	1.427 ± .01
Flashpoint (close cup)	64.0° Fahrenheit

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal temperatures and pressures.
Possibility of hazardous reactions	None Known
Conditions to avoid	Avoid temperatures well below listed flash point for any flammable liquids Avoid heating closed containers
Incompatible materials	Avoid strong oxidizing agents
Hazardous decomposition products	None Known

SECTION 11: TOXICOLOGICAL INFORMATION

This mixture has not been subject to toxicological testing as an entity. According to available data on the constituents the health classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

This has not been subjected to ecotoxicological testing as an entity. According to available data on the constituents the environmental classification criteria are not met.

SECTION 13: DISPOSAL CONSIDERATION

Empty all containers until no free liquid remains. Minimize release to the environment. Dispose of according to all Governmental Regulation.



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SECTION 14: TRANSPORT INFORMATION

	UN Number	UN Shipping Name	Transport Hazard Class(es)	Packing Group
DOT	UN1197	Extracts, Flavoring, Liquid	Class 3	II
IATA/ICAO	UN1197	Extracts, Flavoring, Liquid	Class 3	II

SECTION 15: REGULATORY INFORMATION

SARA Title III: To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

SECTION 16: OTHER INFORMATION

Disclaimer/Statement of Liability

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.