MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name **7-UP FLAVOR 61310*17**

Recommended use Intended for use in beverage preparation

Version No. 02

Revision date 04-January-2012

Product code 61310*17

Manufacturer

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2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Classification F;R11

Risk phrase(s) R11 Highly flammable.

Safety phrase(s) S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe gas/fumes/vapour/spray.
S60 This material and its container must be disposed of as hazardous waste.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	Percent
ETHYL ALCOHOL	64-17-5	30 - 60
Other components below reportable levels		30 - 60

4. FIRST-AID MEASURES

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medica attention if irritation develops or persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists. Get medical attention if irritation develops and persists.

Ingestion Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, call a poison control centre immediately.

General advice If you feel unwell, seek medical advice (show the label where possible).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water fog. Carbon dioxide (CO2). Alcohol resistant foam. Powder.

Extinguishing media which must not be used for safety reasons Water. Do not use water jet as an extinguisher, as this will spread the fire.

Unusual fire & explosion hazards Containers may explode when heated. Heat may cause the containers to explode.

Special protective equipment for fire-fighters Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Structural firefighters protective clothing will only provide limited protection.

Specific methods In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep unnecessary personnel away. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Stay upwind.

Environmental precautions Prevent further leakage or spillage if safe to do so. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

Containment procedures Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up Extinguish all flames in the vicinity.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling May be ignited by open flame. Keep away from sources of ignition - No smoking. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid prolonged exposure.

Storage Do not handle or store near an open flame, heat or other sources of ignition. Keep in a well-ventilated place. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Refrigeration recommended. Store in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
ETHYL ALCOHOL (64-17-5)	STEL	1000 ppm

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value
ETHYL ALCOHOL (64-17-5)	TWA	1880 mg/m3 1000 ppm

Recommended monitoring procedures

Additional exposure data Not available.

Engineering measures Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Respiratory protection Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection Not normally needed.

Eye protection Not normally needed.

Skin and body protection Not normally needed.

General Use personal protective equipment as required. Keep working clothes separately.

Environmental exposure controls Environmental manager must be informed of all major releases.

Hygiene measures When using do not smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available.
Physical state	Liquid.
Form	Clear Liquid
Colour	Colourless
Odour	Lemon
Odour threshold	Not available.
pH	Not available.
Vapour pressure	49.1933 hPa estimated
Vapour density	Not available.
Boiling point	83.0000 °C (181.4000 °F)
Melting point/freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	0.8932
Flash point	20.0000 °C (68.0000 °F)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	362.7778 °C (685.0000 °F) estimated
VOC	57.8800 % estimated
Percent volatile	93.0200 % estimated
Other data	
Density	7.4408 LB/GL
Flammability class	Flammable IB estimated
Flash point class	Flammable IB

10. STABILITY AND REACTIVITY

Chemical stability	Risk of ignition.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Hazardous decomposition products	Not available.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Product	**Test results**
7-UP FLAVOR 61310*17	Acute Inhalation LC50 Rat: 34554.25 mg/l estimated Acute Inhalation LC50 Rat: 215 mg/l/4h Acute Oral LD50 Dog: 9.5024 g/kg estimated Acute Oral LD50 Guinea pig: 9.6752 g/kg estimated Acute Oral LD50 Mouse: 5960.6084 mg/kg estimated Acute Oral LD50 Rat: 2593 mg/kg Acute Oral LD50 Rat: 10.7118 g/kg estimated Acute Other LD50 Mouse: 1611.9558 mg/kg estimated Acute Other LD50 Rat: 2487.906 mg/kg estimated
Components	**Test results**
ETHYL ALCOHOL (64-17-5)	Acute Inhalation LC50 Rat: 20000 mg/l 10 Hours Acute Oral LD50 Dog: 5.5 g/kg Acute Oral LD50 Guinea pig: 5.6 g/kg Acute Oral LD50 Mouse: 3450 mg/kg Acute Oral LD50 Rat: 7060 mg/kg Acute Oral LD50 Rat: 6.2 g/kg Acute Other LD50 Mouse: 933 mg/kg Acute Other LD50 Rat: 1440 mg/kg

Acute toxicity	Acute LD50: 2593 mg/kg, Rat, Oral Acute LC50: 215 mg/l/4h, Rat, Inhalation

Routes of exposure Inhalation. Not applicable.

Chronic toxicity Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

ETHYL ALCOHOL (CAS 64-17-5) 1 Carcinogenic to humans.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Product	Test results
7-UP FLAVOR 61310*17	EC50 Daphnia: 16012 mg/l 48 Hours LC50 Fish: 22287 mg/l 96 Hours
Components	**Test results**
ETHYL ALCOHOL (64-17-5)	EC50 Daphnia: 9268 mg/l 48 Hours EC50 Water flea (Daphnia magna): 7.7 - 11.2 mg/l 48 hours LC50 Fathead minnow (Pimephales promelas): > 100 mg/l 96 hours LC50 Fish: 12900 mg/l 96 Hours

* Estimates for product may be based on additional component data not shown.

Ecotoxicity LC50: 22287 mg/l, Fish, 96.00 Hours
EC50: 16012 mg/l, Daphnia, 48.00 Hours
Components of this product have been identified as having potential environmental concerns

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

13. DISPOSAL CONSIDERATIONS

Disposal instructions This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not dispose of waste into sewer. Do not discharge into drains, water courses or onto the ground.

Waste from residues / unused products Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADG

Proper shipping name	EXTRACTS, FLAVOURING, LIQUID
Hazard class	3
UN number	1197
Packing group	II
Hazard ID	3YE

IATA

UN number	1197
Proper shipping name	Extracts, flavouring, liquid
Hazard class	3
Packing group	II
ERG Code	3L

IMDG

UN number	1197
Proper shipping name	EXTRACTS, FLAVOURING, LIQUID
Hazard class	3
Packing group	II
EmS No.	F-E, S-D

ADG

IATA

IMDG

15. REGULATORY INFORMATION

National regulations This Material Safety Data Sheet was prepared in accordance with the Australia National Code o Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.) No poison schedule number allocated.

Australia HVIC: Listed substance

ETHYL ALCOHOL (CAS 64-17-5) Listed.

16. OTHER INFORMATION

Recommended use Intended for use in beverage preparation

Disclaimer PepsiCo Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

Prepared by Isabell H. Lynch

Issue date Not available.

This data sheet contains changes from the previous version in section(s): This document has undergone significant changes and should be reviewed in its entirety