

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



341233 APPLE FLAVOUR ART LIQ W/S

Version 3

Revision Date 26.08.2013

Print Date 27.08.2013

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

1.1 Product identifier

Commercial Product Name : APPLE FLAVOUR ART LIQ W/S
Material number : 341233

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

Use of the Substance/Mixture : Flavor mix

1.3 Details of the supplier of the safety data sheet

Company : Symrise Shanghai LTD
Jinqiao Export Processing Zone
30-38 Long Qiao Rd., Pudong New Area
201206 SHANGHAI
China

Telephone :

Telefax :

E-mail address : sds@symrise.com

For further information, please contact:
Symrise AG - Tel.: +49 / (0)5531 / 90-0

1.4 Emergency telephone number

Symrise AG - Tel.: +49 / (0)5531 / 90-0

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226
Eye irritation, Category 2 H319

Classification (67/548/EEC, 1999/45/EC)

R10

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

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Hazard statements	: H226 H319	Flammable liquid and vapour. Causes serious eye irritation.
Precautionary statements	: Prevention: P210 P280 Response: P303 + P361 + P353 P305 + P351 + P338 P337 + P313 P370 + P378	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Labelling (67/548/EEC, 1999/45/EC)

Symbol(s)	: None.	
R-pharse(s)	: R10	Flammable.
S-pharse(s)	: S60	This material and its container must be disposed of as hazardous waste.

2.3 Other hazards

no data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

no data available

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Ethanol	64-17-5 200-578-6	F; Xi R11 R36	Flam. Liq.: 2; H225 Eye Irrit.: 2; H319	>= 10 - < 20
Diethyl malonate	105-53-3 203-305-9	Xi R36	Eye Irrit.: 2; H319	>= 1 - < 5
Hexyl acetate	142-92-7 205-572-7	N R51/53 R10	Flam. Liq.: 3; H226 Aquatic Chronic: 2; H411	>= 0,1 - < 1

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trans-Hex-2-enal	6728-26-3 229-778-1	N; Xn R10 R43 R51/53 R21/22	Flam. Liq.: 3; H226 Acute Tox.: 4 (Oral); H302 Acute Tox.: 3 (Dermal); H311 Aquatic Chronic: 2; H411 Skin Sens.: 1; H317	>= 0,1 - < 1
L-Menthyl acetate	2623-23-6 220-076-0	N R51/53	Aquatic Chronic: 2; H411	>= 0,1 - < 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the R-phrases mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air.
- Skin contact : Wash off with soap and water.
- Eye contact : Immediately flush eye(s) with plenty of water.
- Ingestion : Prevent vomiting if possible.
If a person vomits when lying on his back, place him in the recovery position.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Flash back possible over considerable distance.
Do not use a solid water stream as it may scatter and spread fire.

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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Further information : In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Additional advice : Local authorities should be advised if significant spillages cannot be contained.
Suppress (knock down) gases/vapours/mists with a water spray jet.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Use explosion-proof equipment.
Avoid formation of aerosol.
Do not spray on a naked flame or any incandescent material.
When using do not smoke.
Keep away from open flames, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.
No smoking.
Advice on common storage : No special restrictions on storage with other products.
Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Flavor mix

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters, Germany:

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	AGW 500 ppm	09 2012	TRGS 900

Components with workplace control parameters, United Kingdom:

Components	CAS-No.	Control parameters	Update	Basis
Propane-1,2-diol	57-55-6	TWA 150 ppm TWA 10 mg/m ³	2005 2005	EH40 WEL EH40 WEL
Ethanol	64-17-5	TWA 1.000 ppm TWA 1.000 ppm	12 2011 2003	EH40 WEL EH40 OES

Components with workplace control parameters, Spain:

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	VLA-ED 1.000 ppm	2012	VLA (ES)

Components with workplace control parameters, France:

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	VLE 5.000 ppm VME 1.000 ppm	07 2012 07 2012	INRS (FR) INRS (FR)

8.2 Exposure controls

Engineering measures

none

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene Level 2 or of butyl rubber Level 6.
- Eye protection : Safety glasses
- Skin and body protection : Remove and wash contaminated clothing before re-use.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.
- Protective measures : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

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Odour : characteristic

Safety data

Flash point : 41 °C

Water solubility : completely miscible

Relative density : no data available

Vapour pressure : 9 kPa at 50 °C (calculated)

Boiling point : no data available

Melting point/freezing point : no data available

Partition coefficient:
n-octanol/water : no data available

pH : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Ignition temperature : no data available

Minimum ignition energy : no data available

Auto-ignition temperature : no data available

Oxidizing properties : no data available

Lower explosion limit : no data available

Upper explosion limit : no data available

Conductivity : no data available

Bulk density : no data available

Solubility/qualitative : no data available

Solubility in other solvents : no data available

Impact sensitivity : no data available

Burning number : no data available

Relative vapour density : no data available

9.2 Other data

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity : no data available

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- 10.2 Chemical stability** : no data available
- 10.3 Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use.
- 10.4 Conditions to avoid** : no data available
- 10.5 Incompatible materials to avoid** : no data available
- 10.6 Hazardous decomposition products** : no data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute oral toxicity : no data available
- Acute inhalation toxicity : no data available
- Acute dermal toxicity : Acute toxicity estimate : > 5000 mg/kg, Calculation method
- Repeated dose toxicity : no data available
- Acute toxicity (other routes of administration) : no data available
- Skin irritation : no data available
- Eye irritation : no data available
- Sensitisation : no data available
- Mutagenicity : no data available
- Carcinogenicity : no data available
- Reproductive toxicity : no data available
- Teratogenicity : no data available
- Specific target organ toxicity - single exposure : no data available
- Specific target organ toxicity - repeated exposure : no data available
- Aspiration toxicity : no data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

no data available

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12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR : 1197
RID : 1197
IMDG : 1197
IATA-DGR : 1197

14.2 Proper shipping name

ADR : EXTRACTS, FLAVOURING, LIQUID
RID : EXTRACTS, FLAVOURING, LIQUID
IMDG : EXTRACTS, FLAVOURING, LIQUID
IATA-DGR : Extracts, flavouring, liquid

14.3 Transport hazard class

ADR : 3
RID : 3
IMDG : 3
IATA-DGR : 3

14.4 Packing group

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ADR:

Packaging group : III
Classification Code : F1
Hazard Identification : 30
Number
Labels : 3
Tunnel restriction code : (D/E)

RID:

Packaging group : III
Classification Code : F1
Hazard Identification : 30
Number
Labels : 3

IMDG:

Packaging group : III
Labels : 3
EmS - EmS : F-E , S-D

IATA-DGR:

Packing instruction (cargo : 366
aircraft)
Qty/Pkg (Cargo) : 220,00 L
Packing instruction : 355
(passenger aircraft)
Qty/Pkg (Passenger) : 60,00 L
Packaging group : III
Labels : 3

14.5 Environmental hazards

ADR:

Environmentally hazardous : no

RID:

Environmentally hazardous : no

IMDG:

Marine pollutant : no

IATA-DGR:

Environmentally hazardous : no

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

Risk classification according : Exempt
to BetrSichV (Germany)

Water contaminating class : WGK 1 (slightly water endangering)
(Germany) Calculation acc. Annex 4 to VwVwS

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TA Luft List (Germany) : Type: Organic Substances
portion Class 2: 0,3 %

15.2 Chemical Safety Assessment

no data available

SECTION 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3:

R10	Flammable.
R11	Highly flammable.
R21/22	Harmful in contact with skin and if swallowed.
R36	Irritating to eyes.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Any data changes with reference to previous versions are marked by a vertical line in front of the concerned paragraph.