

Trade Name: Apple (Fuji Red) N&A Powder Flavor Concentrate

1 Identification

1.1 Product identifier

Trade name: Apple (Fuji Red) N&A Powder Flavor Concentrate S.D.

Product Code: F0155

Application of the substance / the mixture: Pharma Excipient

1.2 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SpecializedRx Products, LLC

3787 95th Ave NE Suite 100

Circle Pines, MN 55014 USA

www.specializedrx.com

sales@specializedrx.com

Information department:

Tel.: 1-888-512-1209

Fax: 1-612-424-8481

1.3 Emergency telephone number:

Emergency Telephone:

US: 1-888-512-1209

International: 1-888-512-1209

2 Hazard(s) identification

Acute Toxicity: Inhalation, Category 4

Acute Toxicity: Oral, Category 4

Skin Sensitization, Category 1



GHS Signal Word: Warning

GHS Hazard Phrases:

H302: Harmful if swallowed.

H316: Causes mild skin irritation.

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.

GHS Precaution Phrases:

P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.

P264: Wash {hands} thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases

Safety Data Sheet

acc. To OSHA HCS

Reviewed on 22 Jun 2023

Printing date 22 Jun 2023

Trade Name: Apple (Fuji Red) N&A Powder Flavor Concentrate

P301+312: IF SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P321: Specific treatment {see ... on this label}.

P330: Rinse mouth.

P332+313: If skin irritation occurs, get medical advice/attention.

P333+313: If skin irritation or rash occurs, seek medical advice/attention.

P363: Wash contaminated clothing before reuse.

GHS Storage and Disposal Phrases:

No phrases apply.

Eye Contact: MAY CAUSE EYE IRRITATION

Skin Contact: MAY CAUSE SKIN IRRITATION

Ingestion: MAY BE HARMFUL

Inhalation: MAY BE HARMFUL IF INHALED

3 Composition/information on ingredients

Chemical Name	CAS Number	% By Weight
Precipitated silica	112926-00-8	1.0 -3.0 %
D-Glucose	50-99-7	88.0 -94.0 %
Trans-2-Hexenal	6728-26-3	< 1.0 %
Ethyl 2-methylbutyrate	7452-79-1	1.0 -3.0 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

4 First-aid measures

4.1 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: Flush with plenty of water for at least 15 minutes

After eye contact: Immediately rinse opened eye for 15 minutes under running water.

After swallowing: Do not induce vomiting. Rinse out mouth with plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Trade Name: Apple (Fuji Red) N&A Powder Flavor Concentrate

Fire Fighting Instructions:

AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. FLAMMABLE LIQUID AND VAPOR.

Flammable Properties and Hazards:

NOT AVAILABLE

Autoignition Pt:

Explosive Limits: LEL: UEL:

Suitable Extinguishing Media:

USE WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL-RESISTANT FOAM.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

6.2 Environmental precautions:

Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up:

CONTAIN SPILLAGE, AND THEN COLLECT WITH NON-COMBUSTIBLE ABSORBENT MATERIAL, (E.G. SAND, EARTH, DIATOMACEOUS EARTH, VERMICULITE) AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL / NATIONAL REGULATIONS (SEE SECTION 13).

6.4 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.

Protective Action Criteria for Chemicals

PAC-1: None of the ingredients is listed.

PAC-2: None of the ingredients is listed.

PAC-3: None of the ingredients is listed.

7 Handling and storage

7.1 Precautions for safe handling:

AVOID CONTACT WITH SKIN AND EYES. KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Safety Data Sheet

acc. To OSHA HCS

Reviewed on 22 Jun 2023

Printing date 22 Jun 2023

Trade Name: Apple (Fuji Red) N&A Powder Flavor Concentrate

Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Store in cool, dry conditions in well-sealed receptacles and well-ventilated place

7.3 Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

Chemical Name	CAS Number	OSHA TWA	ACGIH TWA	Other
Precipitated silica	112926-00-8	TWA: 80 mg/m3/(%SiO ₂)	TWA: 10 mg/m ³	
D-Glucose	50-99-7			
Trans-2-Hexenal	6728-26-3			
Ethyl 2-methylbutyrate	7452-79-1			

Respiratory Equipment (Specify Type):

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS OR EUROPEAN STANDARD EN 149 MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT RESPIRATOR USE.

Eye Protection:

USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

Protective Gloves: WEAR CHEMICAL-RESISTANT GLOVES TO PREVENT SKIN EXPOSURE.

Other Protective Clothing: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE.

Engineering Controls (Ventilation etc.):

FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER.

Work/Hygienic/Maintenance Practices:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. ENVIRONMENTAL PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.

Eye protection: Goggles recommended during handling.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: White to off white free flowing powder. Apple taste and aroma.

Form: Powder

Odor: Characteristic

pH-value: Not determined.

Trade Name: Apple (Fuji Red) N&A Powder Flavor Concentrate

Melting point/Melting range:

Boiling point/Boiling range:

Flash point: Not determined

Flammability (solid, gaseous): Not applicable.

Ignition temperature:

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure: Not determined.

Specific gravity: Not determined

Density: Not determined.

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with Water: Soluble

Partition coefficient (n-octanol/water): Not determined.

Viscosity: Not determined.

Dynamic: Not determined.

Kinematic: Not determined.

9.2 Other information: No further relevant information available.

10 Stability and reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability: Stable [x] Unstable []

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

THIS MIXTURE HAS NOT BEEN SUBJECTED TO TOXICOLOGICAL TESTING BUT HAS BEEN BLENDED FROM MATERIALS WITH ESTABLISHED TOXICOLOGICAL BIBLIOGRAPHIES. IN VIEW OF THE DIFFICULTY OF USING CURRENT STANDARD TOXICOLOGICAL EVALUATION TECHNIQUES TO PREDICT POTENTIAL HAZARDS TO SUSCEPTIBLE INDIVIDUALS OR ARISING FROM UNFORESEEABLE POTENTIATION, THIS PREPARATION SHOULD BE CONSIDERED AND HANDLED

Trade Name: Apple (Fuji Red) N&A Powder Flavor Concentrate

AS IF DISPLAYED HEALTH HAZARDS AND CONSEQUENTLY TREATED WITH ALL POSSIBLE PRECAUTION.

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

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

NTP (National Toxicology Program): None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

THIS MIXTURE AS A WHOLE HAS NOT BEEN SUBJECTED TO ECOTOXICOLOGICAL TESTING. IN VIEW OF THE DIFFICULTY OF USING CURRENT STANDARD ECOTOXICOLOGICAL EVALUATION TECHNIQUES TO PREDICT THE IMPACT OF PARTICULAR MODES OF RELEASE ON VULNERABLE OR LOCALIZED PARTS OF THE ECOSYSTEM, THIS PREPARATION SHOULD BE CONSIDERED AND HANDLED AS IF IT DISPLAYED POTENTIAL ENVIRONMENTAL HAZARDS, AND TREATED IN CONSEQUENCE WITH ALL POSSIBLE PRECAUTION.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

THIS MATERIAL, AS SUPPLIED, IS NOT A HAZARDOUS WASTE ACCORDING TO FEDERAL REGULATIONS (40 CFR 261). THIS MATERIAL COULD BECOME A HAZARDOUS WASTE IF IT IS MIXED WITH OR OTHERWISE COMES IN CONTACT WITH A HAZARDOUS WASTE, IF CHEMICAL ADDITIONS ARE MADE TO THIS MATERIAL, OR IF THE MATERIAL IS PROCESSED OR OTHERWISE ALTERED.

Safety Data Sheet

acc. To OSHA HCS

Reviewed on 22 Jun 2023

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Trade Name: Apple (Fuji Red) N&A Powder Flavor Concentrate

CONSULT 40 CRF 261 TO DETERMINE WHETHER THE ALTERED MATERIAL IS A HAZARDOUS WASTE. CONSULT THE APPROPRIATE STATE, REGIONAL, OR LOCAL REGULATIONS FOR ADDITIONAL REQUIREMENTS.

14 Transport information

14.1 UN-Number DOT, ADR, ADN, IMDG, IATA	Not Regulated
14.2 UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not Regulated
14.3 Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not Regulated
14.4 Packing group DOT, ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

15 Regulatory information

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

Chemical Name	CAS Number	S. 302 (EHS)	S.304 RQ	S.313 (TRI)
Precipitated silica	112926-00-8	No	No	No
D-Glucose	50-99-7	No	No	No
Trans-2-Hexenal	6728-26-3	No	No	No
Ethyl 2-methylbutyrate	7452-79-1	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated: Yes No Acute (immediate) Health Hazard
 Yes No Chronic (delayed) Health Hazard
 Yes No Fire Hazard
 Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

Chemical Name	CAS Number	Other US EPA or State Lists
Precipitated silica	112926-00-8	CA PROP.65: No
D-Glucose	50-99-7	CA PROP.65: No
Trans-2-Hexenal	6728-26-3	CA PROP.65: No
Ethyl 2-methylbutyrate	7452-79-1	CA PROP.65: No

Safety Data Sheet

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Trade Name: Apple (Fuji Red) N&A Powder Flavor Concentrate

Chemical Name	CAS Number	International Regulatory Lists
Precipitated silica	112926-00-8	Germany WHCS: Yes - 849: WGK 0/nwg; REACH: Yes - 01-2119379499-16: Full, (P)
D-Glucose	50-99-7	Germany WHCS: Yes - 4806: WGK 1; REACH: Yes - (P)
Trans-2-Hexenal	6728-26-3	Germany WHCS: Yes - 5664: WGK 2; REACH: Yes - 01-2120770494-48: Full, (P)
Ethyl 2-methylbutyrate	7452-79-1	Germany WHCS: Yes - 4713: WGK 1; REACH: Yes - 01-2119969445-25: Full, (P)

16 Other information

This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered to be dependable and is accurate to the best of the Company's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. The Company cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

Department issuing SDS:

SpecializedRx Products, LLC

Quality Assurance

Contact: sales@specializedrx.com

Date of preparation / last revision: 22 Jun 2023

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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 Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit