



Material Safety Data Sheet

NFPA	WHMIS	Personal Protective Equipment	Transport Symbol

Preparation Date 03-Mar-2009

Revision Date: 03-Dec-2010

Revision Number 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 42/43 Corn Syrup

Product Code: 011006

Synonyms:

42/43 Corn Syrup. 42DE Corn Syrup. CAS 8029-43-4. EINECS 232-436-4

Use of the Substance / Preparation:

Food Ingredient

Emergency response telephone number:

Chemtrec 1-800-424-9300 (CCN 1635)

Contact Manufacturer:

Archer Daniels Midland Company
4666 Faries Parkway
Decatur, IL 62526, USA
Telephone Number: 217 424-5200

2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance

Appearance Clear Colorless

Physical State

Liquid

Odor

Odorless

Potential Health Effects

Principle Routes of Exposure

None reasonably foreseeable.

Acute Effects

Eyes

Contact with eyes may cause irritation.

Skin

Health injuries are not known or expected under normal use.

Inhalation

Health injuries are not known or expected under normal use.

Ingestion

Health injuries are not known or expected under normal use. Product may contain up to 40 ppm of SO₂ which may elicit sulfite sensitivity.

Chronic Effects

No information available.

Aggravated Medical Conditions

No information available..

Potential Environmental Effects

See Section 12 for additional ecological information.

Toxicological information

See Section 11 for additional toxicological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Carbohydrate

Non-hazardous Components

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Corn syrup	8029-43-4	81% solids	-
Water	7732-18-5	19% moisture	-

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids
Skin Contact Rinse with water
Inhalation No information available.
Ingestion Clean mouth with water and afterwards drink plenty of water. Observe for sulfite sensitivity.
Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties Not applicable.
Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media No information available.
Hazardous Combustion Products No information available.
Explosion Data
Sensitivity to mechanical impact No information available.
Sensitivity to static discharge No information available.
Specific Hazards Arising from the Chemical None known.
Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 0

Stability and Reactivity 0

Flammability 1

Physical hazard -



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Not relevant for the product itself.
Environmental Precautions Prevent further leakage or spillage. Do not flush into surface water.
Methods for Clean-up Soak up with inert absorbent material. Shovel or sweep up.

7. HANDLING AND STORAGE

Handling Storage

Handle in accordance with good industrial hygiene and safety practice.
Keep at temperatures above 41-43 °C / 105-110°F. Corn Syrup should be stored in stainless steel or FDA approved lined mild steel tanks which are equipped with ultraviolet sterile conditioning systems.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

This product is not known to contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

No special technical protective measures required.

Personal Protective Equipment

Eye/face Protection.

Safety glasses with side-shields.

Skin and Body Protection

Long sleeved clothing.

Respiratory Protection

No personal respiratory protective equipment normally required.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State

Appearance Clear Colorless
Liquid

Odor Odor Threshold

Odorless
No information available

Flash Point Boiling point Flammability Limits in Air

No information available
111°C / 232°F
No information available

Autoignition Temperature Melting/Freezing Point Explosion Limits

No information available
No information available
No information available

pH Solubility Evaporation Rate Specific Gravity

4.8
No information available
No information available
1.4198

Vapor Pressure Water Solubility Vapor Density

No information available
Completely soluble
No information available

10. STABILITY AND REACTIVITY

Chemical Stability Conditions to Avoid Incompatible Materials Hazardous Decomposition Products Possibility of Hazardous Reactions

Stable under normal conditions
None known.
No materials to be especially mentioned
None under normal use.
None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

LD50 Oral: No information available
LD50 Dermal: No information available
LC50 Inhalation: No information available

11. TOXICOLOGICAL INFORMATION

Toxicology data for the components

Chronic Effects

Carcinogenicity

There are no known carcinogenic chemicals in this product.

OSHA: (Occupational Safety & Health Administration)

Not Listed

ACGIH: (American Conference of Governmental Industrial Hygienists)

Not Listed

NTP: (National Toxicity Program)

Not Listed

Mexico: (Official Mexican Norm NOM-010-STPS-1999)

Not Listed

IARC: (International Agency for Research on Cancer)

Not Listed

Irritation No information available.
Sensitization May cause sensitization of susceptible persons

Mutagenic Effects No information available.

Developmental Effects No information available.

Corrosivity No information available.
Neurological Effects No information available.

Reproductive Effects No information available.

Target Organ Effects No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants.

Persistence/Degradability Readily biodegradable.
Bioaccumulation/ Accumulation Not applicable.
Mobility Soluble in water.

13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

Waste Disposal Methods Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Solutions with low pH-value should be neutralized before discharge.
Contaminated Packaging Empty remaining contents. Clean container with water.

14. TRANSPORT INFORMATION

Domestic transport regulations (USA)

DOT Not regulated

Domestic transport regulations (Canada)

TDG Not regulated

Domestic transport regulations (Mexico)

MEX Not regulated

International transport regulations

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS ISHL	CHINA	PICCS	KECL	NZLoC
Corn syrup	Yes	Yes	No	Yes 232-436-4	No	Yes	No	Yes	Yes	Yes KE-20303	Yes
Water	Yes	Yes	No	Yes 231-791-2	No	Yes	No	Yes	Yes	Yes KE-35400	Yes

Legend

TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA). DSL - Domestic Substance List (Canada). NDSL - Non Domestic Substances List (Canada). EINECS - European Inventory of Existing Commercial Chemical Substances (EU). ELINCS - European List of Notified Chemical Substances (EU). AICS - Australian Inventory of Chemical Substances (Australia). ENCS - Existing and New Chemical Substances (Japan). ISHL - Industrial Health and Safety Law (Japan). CHINA - Chinese Inventory of Existing Chemical Substances (China). PICCS - Inventory of Chemicals and Chemical Substances (Philippines). KECL - Korean Existing and Evaluated Chemical Substances (Korea). NZLoC - New Zealand Inventory of Chemicals (New Zealand).

USA**Federal Regulations****Ozone Depleting Substances:**

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product is not known to contain any HAPS.

State Regulations**California Proposition 65**

Proposition 65 chemicals are not expected to be found in this product above those naturally present in their agricultural source. Proposition 65 exempts naturally occurring listed chemicals from an obligation to label.

State Right-to-Know

No known components subject to "Right-To-Know" legislation in the following States:

Chemical Name	Weight %	Illinois	Massachusetts	New Jersey	Pennsylvania	Rhode Island
Corn syrup	81% solids	No	No	No	No	No
Water	19% moisture	No	No	No	No	No

Canada**WHMIS Product Classification**

Exempt: Food Product per Hazardous Products Act Part II Controlled Products Section 12.

WHMIS Ingredient Disclosure List IDL

No known component is listed on the WHMIS ingredients disclosure list.

(NPRI) Canadian National Pollutant Release Inventory

No known component is listed on NPRI.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Mexico

Mexico - Grade

No information available.

16. OTHER INFORMATION

Prepared By

ADM Corn Processing

Preparation Date

03-Mar-2009

Revision Date:

03-Dec-2010

Revision Summary

This data sheet contains changes from the previous version in section(s) 3, 11, 15. This version replaces all previous versions.

The information provided on this (M)SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of (M)SDS