

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Milk Replacer**
SYNONYMS: None known
PRODUCT USE: Not Available
U.N. NUMBER: Not Applicable
U.N. DANGEROUS GOODS CLASS: Non-Regulated Material
SUPPLIER/MANUFACTURER'S NAME: **Milk Specialties Company dba MS Global**
ADDRESS: 7500 Flying Cloud Drive, Suite 500, Eden Prairie, MN 55344 USA
EMERGENCY PHONE: 800-323-4274
BUSINESS PHONE: 800-323-4274 (Product Information)
WEB SITE: www.milkspecialties.com
DATE OF CURRENT REVISION: June 17, 2019
DATE OF LAST REVISION: Mary 29, 2016

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a white to off-white powder (solid) with a chalk like odor. Prolonged or repeated exposure to dust generated by this product may cause irritation to skin, eyes and respiratory system. This product contains lactose; individuals who are lactose intolerant may experience some asthmatic allergic reaction. This product is a non-flammable solid, however product may become a combustible dust when finely divided, dried and suspended in air. The Environmental effects of this product may cause waterway derogation if released in large quantities.

US DOT SYMBOLS

Non-Regulated Material

CANADA (WHMIS) SYMBOLS

Complies with WHMIS 2015

GHS HAZARD SYMBOLS

None Applicable

Signal Word: **Warning!**

GHS LABELING AND CLASSIFICATION:

CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1910.1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910.1200 and the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

Components Contributing to Hazards:

Whey Protein

GHS Hazard Classification(s):

Combustible Dust

Hazard Statement(s):

May form combustible dust concentrations in air

Prevention Statement(s):

None applicable

Response Statement(s):

None applicable

Storage Statement(s):

None applicable

Disposal Statement(s):

None applicable

HEALTH HAZARDS OR RISKS FROM EXPOSURE:

ACUTE: Exposure to this product may cause irritation of the eyes, respiratory system and skin. Individuals who are lactose intolerant may experience an asthmatic allergic reaction from the inhalation or ingestion of this product.

CHRONIC: None known

TARGET ORGANS:

ACUTE: Skin and Eyes

CHRONIC: None known

SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION
Whey Protein	Not Assigned	Not Listed	Not Listed	65% - 83%	COMBUSTIBLE DUST
Hydrolyzed Wheat Protein	Not Assigned	Not Listed	Not Listed	0% - 7%	NOT CLASSIFIED
Plasma Protein	Not Assigned	Not Listed	Not Listed	0% - 10%	NOT CLASSIFIED
Soy Protein	Not Assigned	Not Listed	Not Listed	0% - 15%	NOT CLASSIFIED
Animal Fat & Vegetable Oil	Not Assigned	Not Listed	Not Listed	10% - 30%	NOT CLASSIFIED
Vitamin / Mineral Premixes	Not Assigned	Not Listed	Not Listed	1.75% - 2.25%	NOT CLASSIFIED
Mannan-Oligosaccharides / Fructo-Oligosaccharides	Not Assigned	Not Listed	Not Listed	0% - 2.25%	NOT CLASSIFIED
Citric Acid and/or Butyric Acid	Not Assigned	Not Listed	Not Listed	0% - 5.3%	NOT CLASSIFIED
Medications- Oxyteracycline/Neomycin, Decoquinatate, or Lasalocid	Not Assigned	Not Listed	Not Listed	0% - 1%	NOT CLASSIFIED
Diflubenzuron	35367-38-5	252-529-3	Not Listed	0% - 0.3%	ACUTE TOX 4 (DERMAL), AQUATIC ACUTE / CHRONIC CAT 1

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. Possible allergic reaction. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin, or eye problems may be aggravated by prolonged contact. Individuals who are lactose intolerant may experience some allergic reaction.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT:

Non-Flammable

AUTOIGNITION TEMPERATURE:

Not Applicable

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): NA Upper (UEL): NA

FIRE EXTINGUISHING MATERIALS:

Water, Dry Chemical Powder, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Product may become a combustible dust when finely divided, dried and suspended in air. Keep away from sources of ignition. Provide adequate housekeeping and dust control.

Explosion Sensitivity to Mechanical Impact:

Not Sensitive.

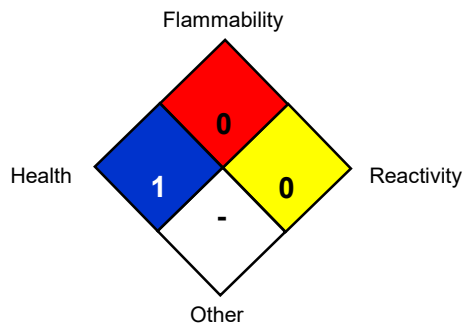
Explosion Sensitivity to Static Discharge:

Sensitive



SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)			1
FLAMMABILITY HAZARD (RED)			0
PHYSICAL HAZARD (YELLOW)			0
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Personnel should be trained for spill response operations.

SPILLS: Contain spill if safe to do so. Sweep, shovel, or rinse with water and place in an appropriate container for disposal. Avoid procedures that generate suspended dust. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location. Contain dust to lowest possible levels. Use equipment designed for combustible dust. Do not blow dust.

STORAGE AND HANDLING PRACTICES: Dry ambient conditions in a well-ventilated area out of direct sunlight. Store at less than 75% relative humidity. Do not refrigerate.

SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH TWA	OSHA TWA	OTHER
Whey Protein	Not Assigned	Not Listed	Not Listed	Not Listed
Hydrolyzed Wheat Protein	Not Assigned	Not Listed	Not Listed	Not Listed
Plasma Protein	Not Assigned	Not Listed	Not Listed	Not Listed
Soy Protein	Not Assigned	Not Listed	Not Listed	Not Listed
Animal Fat & Vegetable Oil	Not Assigned	Not Listed	Not Listed	Not Listed
Vitamin / Mineral Premixes	Not Assigned	Not Listed	Not Listed	Not Listed
Mannan-Oligosaccharides / Fructo-Oligosaccharides	Not Assigned	Not Listed	Not Listed	Not Listed
Citric Acid and/or Butyric Acid	Not Assigned	Not Listed	Not Listed	Not Listed
Medications- Oxyteracycline/Neomycin, Decoquinatate, or Lasalocid	Not Assigned	Not Listed	Not Listed	Not Listed
Diffubenzuron	35367-38-5	Not Listed	Not Listed	Not Listed

THE FOLLOWING CRITERIA APPLIES TO THIS PRODUCT.
PARTICULATES NOT OTHERWISE REGULATED RESPIRABLE FRACTION

TWA
 OSHA 5 mg/cu m
PARTICULATES NOT OTHERWISE REGULATED TOTAL DUST

TWA
 OSHA 15 mg/cu m

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE:	Powder (Solid)
APPEARANCE & ODOR:	This product is a white to off-white powder (solid) with a sweet dairy aroma
ODOR THRESHOLD (PPM):	Not Applicable
VAPOR PRESSURE (mmHg):	Not Applicable
VAPOR DENSITY (AIR=1):	Not Applicable
EVAPORATION RATE (nBuAc = 1):	Not Applicable
BOILING POINT (C°):	Not Applicable
FREEZING POINT (C°):	Not Applicable
pH:	5.5-7.0
SPECIFIC GRAVITY 20°C: (WATER =1)	0.27-0.31
SOLUBILITY IN WATER (%)	Soluble

SECTION 10 - STABILITY and REACTIVITY

STABILITY: Product is stable.

DECOMPOSITION PRODUCTS: When heated to decomposition this product produces Oxides of carbon.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Generation of dust.

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICITY DATA: Toxicity data is not available for mixture:

No LD50 Data Available

SUSPECTED CANCER AGENT: None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin, eyes and respiratory system. Potential Allergen.

SENSITIZATION OF PRODUCT: This product is not considered a sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No information concerning the effects of this product and its components on the human reproductive system.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: None known.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: None known.

ASPIRATION HAZARD: None.

SECTION 12 - ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No data available at this time.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on this product's effects on plants or animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life. May cause waterway derogation in large quantities.

SECTION 13 - DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

SECTION 14 - TRANSPORTATION INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Non-Regulated Material

HAZARD CLASS NUMBER and DESCRIPTION: Not Applicable

UN IDENTIFICATION NUMBER: Not Applicable

PACKING GROUP: Not Applicable.

DOT LABEL(S) REQUIRED: Not Applicable

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2016): Not Applicable

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

SECTION 15 - REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA REPORTING REQUIREMENTS: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals or are exempt from listing.

SARA 311/312:

Acute Health: Yes Chronic Health: No Fire: No Reactivity: No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): None of the ingredients are on the California Proposition 65 lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Complies with WHMIS 2015.

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION:

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS or are exempt from listing

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed or exempt
Australian Inventory of Chemical Substances (AICS):	Listed or exempt
Korean Existing Chemicals List (ECL):	Listed or exempt
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed or exempt
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed or exempt
Swiss Giftlist List of Toxic Substances:	Listed or exempt
U.S. TSCA:	Listed or exempt

SECTION 16 - OTHER INFORMATION

PREPARED BY: Chris Eigbrett MSDS to GHS Compliance

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