BRANDT

SAFETY DATA SHEET

1. Identification

Product identifier Manni-Plex for Tree Nuts

Other means of identification

Product code 28146

Recommended use Agriculture / Horticulture - Micronutrient Solution - Refer to Product Label

Recommended restrictions Refer to product label. **Manufacturer/Importer/Supplier/Distributor information**

Manufacturer

Company nameBrandt Consolidated, Inc.Address2935 South Koke Mill Road

Springfield, IL 62711

United States

Telephone Corporate Office 1-217-547-5800

Website www.brandt.co
E-mail www.brandt.co
msds@brandt.co

Contact person EH&S / Regulatory Department

Emergency phone number CHEMTREC (24 hours):

USA, Canada, Puerto Rico 1-800-424-9300 Virgin Islands 1-800-424-9300 International Maritime +1 (703) 527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1
Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

May cause respiratory irritation. Suspected of damaging fertility or the unborn child. Very toxic to

Category 1

aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Material name: Manni-Plex for Tree Nuts

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all Response

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison

center/doctor. Wash contaminated clothing before reuse. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Magnesium Nitrate		10377-60-3	10 - < 20*
Cupric Nitrate		3251-23-8	5 - < 10*
Zinc Nitrate		7779-88-6	5 - < 10*
Disodium Octaborate Tetrahydrate		12008-41-2	1 - < 3*
Urea		57-13-6	1 - < 3*
Other components below reportable I	evels		60 - < 70

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Skin contact

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

General information

Ingestion

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water

immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

Material name: Manni-Plex for Tree Nuts

SDS US

28146 Version #: 07 Revision date: 05-07-2018 Issue date: 03-31-2014

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation, Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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 to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. AC	CGIH	Threshold	Limit	Values
--------	------	------------------	-------	--------

Tetrahydrate (CAS 12008-41-2) TWA 2 mg/m3 Inhalable fraction US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form Cupric Nitrate (CAS 3251-23-8) US. AIHA Workplace Environmental Exposure Level (WEEL) Guides Components Type Value Form	Components	Туре	Value	Form
Disodium Octaborate STEL 6 mg/m3 Inhalable fraction Tetrahydrate (CAS 12008-41-2) TWA 2 mg/m3 Inhalable fraction Inhalable fra		TWA	1 mg/m3	Dust and mist.
Tetrahydrate (CAS 12008-41-2) TWA 2 mg/m3 Inhalable fraction US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form Cupric Nitrate (CAS 3251-23-8) US. AIHA Workplace Environmental Exposure Level (WEEL) Guides Components Type Value Form	·		0.2 mg/m3	Fume.
US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form Cupric Nitrate (CAS TWA 1 mg/m3 Dust and mist. 3251-23-8) US. AIHA Workplace Environmental Exposure Level (WEEL) Guides Components Type Value Form	Tetrahydrate (CAS	STEL	6 mg/m3	Inhalable fraction.
Components Type Value Form Cupric Nitrate (CAS 3251-23-8) TWA 1 mg/m3 Dust and mist. US. AIHA Workplace Environmental Exposure Level (WEEL) Guides Components Type Value Form	•	TWA	2 mg/m3	Inhalable fraction.
Cupric Nitrate (CAS TWA 1 mg/m3 Dust and mist. 3251-23-8) US. AIHA Workplace Environmental Exposure Level (WEEL) Guides Components Type Value Form	US. NIOSH: Pocket Guide to Ch	emical Hazards		
3251-23-8) US. AIHA Workplace Environmental Exposure Level (WEEL) Guides Components Type Value Form	Components	Туре	Value	Form
Components Type Value Form	1	TWA	1 mg/m3	Dust and mist.
Components Type Value Form	US. AIHA Workplace Environme	ental Exposure Level (WEEL) Guides		
Urea (CAS 57-13-6) TWA 10 mg/m3 Total particulat	Components	Туре	Value	Form
	Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

Material name: Manni-Plex for Tree Nuts

supplier.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. Physical and chemical properties

Appearance Aqueous solution.

Physical state Liquid.
Form Liquid.
Color Blue
Odor None.

Odor threshold Not available.
pH Not available.

Melting point/freezing point 230 °F (110 °C) estimated

Initial boiling point and boiling

range

> 212 °F (> 100 °C)

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor density Not available.

Relative density 1.28 - 1.34 g/cm3

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density 1.28 - 1.34 g/cm3

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Percent volatile 59.44 % estimated pH in aqueous solution 3 - 4 (10% Solution)

Pounds per gallon 10.7 - 11.1 lb/gal

Shelf life > 2 years

Specific gravity 1.28 - 1.34

VOC 5.1 % estimated

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Possibility of hazardous reactions

Material is stable under normal conditions. Hazardous polymerization does not occur.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Product

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological

characteristics

Manni-Plex for Tree Nuts

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause respiratory irritation.

Species

Components	Species	Test Results
	Rat	8037 mg/kg estimated
LD50	Mouse	2697 mg/kg estimated
Oral		
<u>Acute</u>		
Marini Fick for Free Nats		

Cupric Nitrate (CAS 3251-23-8)

Acute Oral

LD50 Rat

940 mg/kg

Test Results

Disodium Octaborate Tetrahydrate (CAS 12008-41-2)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Guinea pig 5300 mg/kg

Rat 2550 mg/kg

2 g/kg

Urea (CAS 57-13-6)

Acute

Oral

LD50 Rat 8471 mg/kg

Sheep 28500 mg/kg

Zinc Nitrate (CAS 7779-88-6)

Acute Oral

LD50 Mouse 241.3 mg/kg
Rat 1400 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Material name: Manni-Plex for Tree Nuts

SDS US

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

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ

toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated

exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Product		Species	Test Results
Manni-Plex for Tree Nu	ts		
Aquatic			
Crustacea	EC50	Daphnia	5.2302 mg/l, 48 hours estimated
Fish	LC50	Fish	14.9439 mg/l, 96 hours estimated
Components		Species	Test Results
Cupric Nitrate (CAS 32	51-23-8)		
Aquatic			
Crustacea	EC50	Water flea (Moina dubia)	0.037 - 0.044 mg/l, 48 hours
Fish	LC50	Winter flounder (Pleuronectes americanus)	0.057 - 0.1061 mg/l, 96 hours
Disodium Octaborate T	etrahydrate (CAS	12008-41-2)	
Aquatic			
Acute			
Crustacea	LC50	Daphnia magna	619 mg/l
Fish	LC50	Pimephales promelas	370 mg/l
Urea (CAS 57-13-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3910 mg/l, 48 hours
Fish	LC50	Carp (Leuciscus idus melanotus)	> 10000 mg/l, 48 hours
		Guppy (Poecilia reticulata)	16200 - 18300 mg/l, 96 hours
		Harlequinfish, red rasbora (Rasbora heteromorpha)	12000 mg/l, 96 hours
		Mozambique tilapia (Tilapia mossambica)	590 - 730 mg/l, 96 hours
Zinc Nitrate (CAS 7779	-88-6)		
Aquatic			
Crustacea	LC50	Brown mussel (Perna indica)	1.2858 - 1.5402 mg/l, 96 hours

Material name: Manni-Plex for Tree Nuts

LC50 Brown musser (Perna Indica) 1.2656 - 1.5402 mg/l, 96 nours

 Components
 Species
 Test Results

 Fish
 LC50
 Minnow (Phoxinus phoxinus)
 2.7 - 3.7 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Urea -2.11

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

product residues. This material and its container must be disposed of in a safe manner (sei

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN3264

UN proper shipping name Transport hazard class(es) Corrosive liquid, acidic, inorganic, n.o.s. (Cupric Nitrate RQ = 1818 LBS), MARINE POLLUTANT

Class 8
Subsidiary risk Label(s) 8
Packing group III

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

Not DOT regulated in domestic (USA ground) transportation in package sizes less than 1818 lbs (170 gallons); 825 kg (644 liters). The DOT transportation information above is for shipments with package sizes equal to or exceeding this value.

DOT Shipping Notes: 40 CFR 172.504(f)(9) For Class 9, a CLASS 9 placard is not required for domestic (USA ground) transportation, however shipments with packaging exceeding the Reportable Quantity (RQ) or bulk packaging must be marked with the appropriate identification number on a CLASS 9 placard, an orange panel, or a white square-on-point display configuration as required. Since the Class 9 placard is not required (although it may be used) the hazardous material endorsement is also not required on a Commercial Drivers License.

IATA

UN number UN3264

UN proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Cupric Nitrate)

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group III
Environmental hazards Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

IMDG

UN number UN3264

UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Cupric Nitrate), MARINE POLLUTANT

Transport hazard class(es)

Class 8
Subsidiary risk Packing group |||

Environmental hazards

Marine pollutant Yes EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

DOT



IATA; IMDG



Marine pollutant



General information

Not DOT regulated in domestic (USA ground) transportation in package sizes less than 1818 lbs (170 gallons); 825 kg (644 liters). The DOT transportation information above is for shipments with package sizes equal to or exceeding this value.

15. Regulatory information

US federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Cupric Nitrate (CAS 3251-23-8) Listed.
Zinc Nitrate (CAS 7779-88-6) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Magnesium Nitrate	10377-60-3	10 - < 20	
Cupric Nitrate	3251-23-8	5 - < 10	
Zinc Nitrate	7779-88-6	5 - < 10	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Magnesium Nitrate (CAS 10377-60-3)

US. Massachusetts RTK - Substance List

Cupric Nitrate (CAS 3251-23-8)

Magnesium Nitrate (CAS 10377-60-3)

Zinc Nitrate (CAS 7779-88-6)

US. New Jersey Worker and Community Right-to-Know Act

Cupric Nitrate (CAS 3251-23-8)

Disodium Octaborate Tetrahydrate (CAS 12008-41-2)

Magnesium Nitrate (CAS 10377-60-3)

Zinc Nitrate (CAS 7779-88-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Cupric Nitrate (CAS 3251-23-8)

Magnesium Nitrate (CAS 10377-60-3)

Zinc Nitrate (CAS 7779-88-6)

US. Rhode Island RTK

Cupric Nitrate (CAS 3251-23-8)

Magnesium Nitrate (CAS 10377-60-3)

Zinc Nitrate (CAS 7779-88-6)

US. California Proposition 65



WARNING: This product can expose you to chemicals including arsenic, cadmium, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region Inventory name On inventory (yes/no)* Europe

European Inventory of Existing Commercial Chemical

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea

Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes

Philippine Inventory of Chemicals and Chemical Substances **Philippines**

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

03-31-2014 Issue date 05-07-2018 Revision date

Version # 07

The information provided in this Safety Data Sheet is correct to the best of Manufacturer's Disclaimer

knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data

Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of

the Product to determine suitability of the Product for user's particular use.

Revision information Physical & Chemical Properties: Multiple Properties

GHS: Classification

Material name: Manni-Plex for Tree Nuts

10 / 10 28146 Version #: 07 Revision date: 05-07-2018 Issue date: 03-31-2014