

SAFETY DATA SHEET

1. Identification

Other means of identificationProduct code32081Recommended useAgricultural/ Horticultural Use- Micronutrient Fertilizer- Refer to product label.Recommended restrictionsRefer to product label.Manufacturer/Importer/Supplie/Tstributor informatioManufactured for:Innovation Hammer, LL.C dba Brandt iHammerAddress479 Village Park Drive Powell, OH 43065 United StatesTelephone614-885-4769Websitewww.BrandtiHammer.coManufactured by:Brandt Consolidated, Inc.Address2935 South Koke Mill Road Springfield, IL 62711 United StatesTelephone1-217-547-5840Websitewww.brandt.coEmailmosds@brandt.coContact PersonEH&S/Regulatory Department EmergencyUS, Canada, Puetro RC1(800) 424-3900 Virgin IslandsInternational Maritime1(703) 527-3887
Recommended use Agricultural/ Horticultural Use- Micronutrient Fertilizer- Refer to product label. Recommended restrictions Refer to product label. Manufacturer/Importer/Supplier/>Ustributor information Innovation Hammer, L.L.C dba Brandt iHammer Address 479 Village Park Drive Powell, OH 43065 United States Telephone 614-885-4769 Website www.BrandtiHammer.co Manufactured by: Brandt Consolidated, Inc. Address 2935 South Koke Mill Road Springfield, IL 62711 United States Telephone 1-217-547-5840 Website www.brandt.co Email msds@brandt.co Contact Person EH&S/Regulatory Department Emergency CHEMTREC (24 Hours): US, Canada, Puetro Rico 1 (800) 424-3900 Virgin Islands 1 (800) 424-3900
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International Maritime +1 (703) 527-3887
2. Hazard(s) identification
Physical hazards Not classified.
Health hazardsSerious eye damage/eye irritationCategory 2B
Reproductive toxicity Category 2
Environmental hazards Not classified.
OSHA defined hazards Not classified.
Label elements

Signal word Hazard statement

Causes eye irritation. Suspected of damaging fertility or the unborn child.

Warning

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
Storage	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	%
Urea		57-13-6	10 - < 20*
EDTA manganese dipotassium		68015-77-0	5 - < 10*
Magnesium Nitrate Hexahydrate		13446-18-9	1 - < 3*
Disodium Octaborate Tetrahydrate		12008-41-2	< 0.3*
Ammonium Hydroxide		1336-21-6	< 0.1*
Sodium hydroxide, (Na(OH))		1310-73-2	< 0.1
Other components below reportable le	evels		80 - < 90

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

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	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	Not applicable, non-combustible.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Not applicable, non-combustible.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	None (non-combustible).
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

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 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	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 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. Avoid contact with eyes. Avoid prolonged exposure. 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. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Ammonium Hydroxide (CAS 1336-21-6)	PEL	35 mg/m3	
		50 ppm	
EDTA manganese dipotassium (CAS 68015-77-0)	Ceiling	5 mg/m3	
Sodium hydroxide, (Na(OH)) (CAS 1310-73-2)	PEL	2 mg/m3	
US. ACGIH Threshold Limit Values	5		
Components	Туре	Value	Form
Ammonium Hydroxide (CAS 1336-21-6)	STEL	35 ppm	
	TWA	25 ppm	
Disodium Octaborate Tetrahydrate (CAS 12008-41-2)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Sodium hydroxide, (Na(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	Form
Ammonium Hydroxide (CAS 1336-21-6)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	

US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	Form
EDTA manganese dipotassium (CAS 68015-77-0)	STEL	3 mg/m3	Fume.
	TWA	1 mg/m3	Fume.
Sodium hydroxide, (Na(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. Workplace Environment Components	tal Exposure Level (WEEL) Guides Type	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
Biological limit values	No biological exposure limits noted for th	e 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. Provide eyewash station.		
Individual protection measures, Eye/face protection	such as personal protective equipment Chemical respirator with organic vapor c		
Skin protection Hand protection	Use protective gloves made of: Nitrile. Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). Butyl rubber.		
Other	Wear suitable protective clothing. Use of	an impervious apron is rec	ommended.
Respiratory protection	Chemical respirator with organic vapor c	artridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Observe any medical surveillance requirements. 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	Liquid.		
Physical state	Liquid.		
Form	Liquid.		
Color	Red brown.		
Odor	faint sweet odor		
Odor threshold	Not available.		
рН	6 - 8		
Melting point/freezing point	270.86 °F (132.7 °C) estimated / < 32 °F (< 0 °C) estimated		
Initial boiling point and boiling range	> 212 °F (> 100 °C) estimated		
Flash point	Not available.		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or exp	losive 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	Not available.		

100 %
Not available.
Not available.
Not available.
Similar to Water estimated
1.45 g/cm3 estimated
Not explosive.
Not oxidizing.
53.46 % estimated
6 - 8 10% v/v estimated
9.7 lb/gal (typical)
> 2 years estimated
1.15 - 1.17
5.5 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

Acute toxicity	Not known.	
Product	Species	Test Results
Advantage		
<u>Acute</u>		
Dermal		
LD50	Rabbit	89750 mg/kg
Inhalation		
LC50	Rat	8143 mg/l, 4 Hours
Oral		
LD50	Rat	33700 mg/kg

Components	Species	Test Results
Disodium Octaborate Tetrahydrat	e (CAS 12008-41-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	2550 mg/kg
Magnesium Nitrate Hexahydrate ((CAS 13446-18-9)	
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg
Oral		
LD50	Rat	> 2000 mg/kg
Urea (CAS 57-13-6)		
Acute		
Oral		0474
LD50	Rat	8471 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause tem	porary irritation.
Serious eye damage/eye rritation	Causes eye irritation.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause s	kin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed.		
	ed Substances (29 CFR 1910.1001-1052)
Not regulated.	ogram (NTP) Report on Carcinogens	
Not listed.	ogram (iver) report on ouremogens	
Reproductive toxicity	Suspected of damaging fertility or the u	nborn child.
Specific target organ toxicity -	Not classified.	
single exposure		
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	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Product	Species	Test Results
Advantage	-	
Aquatic		
- -		27052 2000 mm // 40 hours active stad

Components		Species	Test Results
Ammonium Hydroxide (CAS	1336-21-6)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	15 mg/l, 96 hours
Disodium Octaborate Tetrah	ydrate (CAS 1	2008-41-2)	
Aquatic			
<i>Acute</i> Crustacea	LC50	Daphnia magna	619 mg/l
Fish	LC50		
-		Pimephales promelas	370 mg/l
Magnesium Nitrate Hexahyo Aquatic	ITALE (CAS 154	40-10-9)	
Acute			
Algae	LC50	Algae	> 1700 mg/l
Crustacea	LC50	Invertebrates (Invertebrates)	490 mg/l
Fish	LC50	Fish	1378 mg/l
Sodium hydroxide, (Na(OH)) (CAS 1310-73	3-2)	-
Aquatic		•	
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	125 mg/l, 96 hours
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
sistence and degradability	No data is a	available on the degradability of any ingredier	nts in the mixture.
accumulative potential			
Partition coefficient n-octa	anol / water (lo		
Urea	N N N N	-2.11	
bility in soil	No data ava		
er adverse effects		dverse environmental effects (e.g. ozone depl ndocrine disruption, global warming potential)	
Disposal consideration	ons		
oosal instructions	material un containers.	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.	
al disposal regulations	Dispose in	accordance with all applicable regulations.	
ardous waste code	The waste	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
ste from residues / unused ducts	product res	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: Disposal instructions).	
taminated packaging		ce emptied containers may retain product residue, follow label warnings even after container is ptied. Empty containers should be taken to an approved waste handling site for recycling or posal.	
Transport information			

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations	This 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)

Ammonium Hydroxide (CAS 1336-21-6)	Listed.
EDTA manganese dipotassium (CAS 68015-77-0)	Listed.
Sodium hydroxide, (Na(OH)) (CAS 1310-73-2)	Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
EDTA manganese dipotassium	68015-77-0	5 - < 10	
Magnesium Nitrate Hexahydrate	13446-18-9	1 - < 3	

Other federal regulations

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

EDTA manganese dipotassium (CAS 68015-77-0)

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

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.

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

Disodium Octaborate Tetrahydrate (CAS 12008-41-2) Magnesium Nitrate Hexahydrate (CAS 13446-18-9) Sodium hydroxide, (Na(OH)) (CAS 1310-73-2)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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

Issue date	02-24-2015
Revision date	06-05-2019
Version #	10
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of Manufacturer's 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 Transport Information: Material Transportation Information