SAFETY DATA SHEET

KOCH. KOCH AGRONOMIC SERVICES, LLC

1. Identification

1. Identification		
Product identifier	AGROTAIN® ADVANCED 1.0	
Other means of identification		
SDS Number	KAS_AGROADV1_US_EN	
Recommended use	Fertilizer Additive.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer/Supplier	Koch Agronomic Services, LLC	
	4111 E 37th St N	
	Wichita, KS 67220 US	
	kochmsds@kochind.com	
	1.866.863.5550	
Emergency	For Chemical Emergency	
	Call CHEMTREC day or night	
	USA/Canada - 1.800.424.9300	
	Mexico - 1.800.681.9531	
	Outside USA/Canada - 1.703.527.3887	
	(collect calls accepted)	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Reproductive toxicity	Category 1B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Causes skin irritation. Causes serious eye dar fertility or the unborn child.	nage. May cause respiratory irritation. May damage
Precautionary statement		
Prevention		handle until all safety precautions have been read spray. Wash thoroughly after handling. Use only tective gloves/eye protection/face protection.
Response	off contaminated clothing and wash before reu several minutes. Remove contact lenses, if pre call a poison center/doctor. If exposed or conc	itation occurs: Get medical advice/attention. Take ise. If in eyes: Rinse cautiously with water for esent and easy to do. Continue rinsing. Immediately erned: Get medical advice/attention. If inhaled: able for breathing. Call a poison center/doctor if you

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

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

feel unwell.

None known.

Not applicable.

Storage Disposal

Hazard(s) not otherwise

Supplemental information

classified (HNOC)

3. Composition/information on ingredients

Mixtures

Chemical name		CAS number	%
N-methyl-2-pyrrolidone		872-50-4	30 - 60
N-(n-butyl)-thiophosphoric triamide		94317-64-3	15 - 40
Propylene Glycol		57-55-6	10 - 30
Triethylene glycol monobutyl ether		143-22-6	< 6
Non-hazardous components		Proprietary	< 2
Tetraethylene glycol monobuty ether	1	1559-34-8	< 2
Diethylene glycol monobutyl ether		112-34-5	< 0.5
Triethylene glycol		112-27-6	< 0.1
Composition comments	All concentrations are in percent by we percent by volume.	ight unless ingredient is a gas. Gas	s concentrations ar
	This Safety Data Sheet is not a guarar on specified sales orders, customer in supplier.		
I. First-aid measures			
nhalation	Move person to fresh air. If the affected medical attention immediately.	d person is not breathing, apply art	ificial respiration.
Skin contact	Immediately flush skin with plenty of w		
eye contact	Immediately flush eyes with plenty of v immediately.	vater for at least 15 minutes. Get me	edical attention
ngestion	Rinse mouth thoroughly. Drink 1 or 2 g poison control center. If vomiting occur the lungs. Get medical attention.		
Nost important symptoms/effects, acute and lelayed	Risk of serious damage to eyes. Skin i	rritation. Respiratory tract irritation.	
symptoms/effects, acute and	Risk of serious damage to eyes. Skin i Treat symptomatically. Symptoms may		
symptoms/effects, acute and lelayed ndication of immediate nedical attention and special reatment needed		v be delayed.	take precautions to
symptoms/effects, acute and lelayed ndication of immediate nedical attention and special	Treat symptomatically. Symptoms may Ensure that medical personnel are awa	v be delayed.	take precautions to
ymptoms/effects, acute and lelayed ndication of immediate nedical attention and special reatment needed General information 5. Fire-fighting measures	Treat symptomatically. Symptoms may Ensure that medical personnel are awa	v be delayed. are of the material(s) involved, and t	take precautions to
symptoms/effects, acute and lelayed ndication of immediate nedical attention and special reatment needed General information	Treat symptomatically. Symptoms may Ensure that medical personnel are awa protect themselves.	be delayed. are of the material(s) involved, and t e (CO2). Foam.	take precautions to
symptoms/effects, acute and lelayed indication of immediate nedical attention and special reatment needed General information 5. Fire-fighting measures Suitable extinguishing media Jnsuitable extinguishing	Treat symptomatically. Symptoms may Ensure that medical personnel are awa protect themselves. Water fog. Water spray. Carbon dioxid Do not use water jet as an extinguishe Fire may produce irritating, corrosive a	be delayed. are of the material(s) involved, and the control of the material (s) involved, and the control of t	
symptoms/effects, acute and lelayed indication of immediate nedical attention and special reatment needed General information 5. Fire-fighting measures Suitable extinguishing media Jnsuitable extinguishing nedia Specific hazards arising from	Treat symptomatically. Symptoms may Ensure that medical personnel are awa protect themselves. Water fog. Water spray. Carbon dioxid Do not use water jet as an extinguishe	be delayed. are of the material(s) involved, and the e (CO2). Foam. r, as this will spread the fire. nd/or toxic gases.	ecautions indicate
symptoms/effects, acute and lelayed indication of immediate medical attention and special reatment needed General information 5. Fire-fighting measures Suitable extinguishing media Jnsuitable extinguishing media Specific hazards arising from he chemical Special protective equipment	Treat symptomatically. Symptoms may Ensure that medical personnel are awa protect themselves. Water fog. Water spray. Carbon dioxid Do not use water jet as an extinguishe Fire may produce irritating, corrosive a Selection of respiratory protection for f the workplace. Self-contained breathin	be delayed. are of the material(s) involved, and the e (CO2). Foam. r, as this will spread the fire. nd/or toxic gases. irefighting: follow the general fire pro g apparatus and full protective cloth	ecautions indicate

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation. 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. After removal flush contaminated area thoroughly 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	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers or watercourses.
7. Handling and storage	
Precautions for safe handling	Avoid inhalation of vapors/spray and contact with skin and eyes. Use only with adequate ventilation. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Long term storage at temperatures above 100°F (36°C), and long term storage of opened containers, will cause the product to degrade. As the product degrades, it can release harmful gases. Store below 100°F (36°C) and use opened containers within 30 days. Always use oldest stock first.

8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	Form	
N-methyl-2-pyrrolidone (CAS 872-50-4)	TWA	40 mg/m3		
		10 ppm		
Propylene Glycol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.	

Biological limit values

ACGIH Biological Exposu	ure Indices			
Components	Value	Determinant	Specimen	Sampling Time
N-methyl-2-pyrrolidone (CAS 872-50-4)	100 mg/l	5-Hydroxy-N-m ethyl-2-pyrrolid one	Urine	*
* - For sampling details, ple	ease see the source do	cument.		
Exposure guidelines	Follow standard m	onitoring procedures		
US - California OELs: Ski	n designation			
N-methyl-2-pyrrolidone US WEEL Guides: Skin de	· · ·	Can be	absorbed throu	gh the skin.
N-methyl-2-pyrrolidone	e (CAS 872-50-4)	Can be	absorbed throu	igh the skin.
Appropriate engineering controls				n. Observe Occupational Exposure Limits mist. Provide eyewash station and safety
Individual protection measure	es, such as personal p	protective equipmer	nt	
Eye/face protection	Wear approved sa	ifety glasses or goggl	es.	
Skin protection				
Hand protection				e that the liquid may penetrate the gloves. recommended by the glove supplier.
Other	Wear appropriate	clothing to prevent re	peated or prolo	nged skin contact.

Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of mist, use suitable respiratory equipment with particle filter. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134 and ANSI Z88.2.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	Green liquid.
Physical state	Liquid.
Form	Liquid.
Color	Green.
Odor	Slight.
Odor threshold	Not available.
рН	8.1 - 8.6 in 10% solution
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
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.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	20 - 30 cP
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	,

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityStable under normal temperature conditions.Possibility of hazardous
reactionsHazardous polymerization does not occur.Conditions to avoidExtreme temperatures.Incompatible materialsAcids. Strong reducing agents. Strong oxidizing agents.Hazardous decomposition
productsDuring combustion: Carbon oxides. Nitrogen oxides. Sulfur oxides.

11. Toxicological information

Information on likely routes of exposure

Information on likely routes of e	-		
Inhalation	May cause respiratory irritation.		
Skin contact	Causes skin irritation.		
Eye contact	Causes serious eye damage.		
Ingestion	May cause discomfort if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Risk of serious damage to eyes. Skin irritation. Respiratory tract irritation.		
Information on toxicological eff	ects		
Acute toxicity	May cause discomfort if swallowed.		
Components	Species	Test Results	
N-(n-butyl)-thiophosphoric triamide	e (CAS 94317-64-3)		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
LC50	Wistar rat	> 2.1 mg/l, 4 hours	
Oral			
LD50	Wistar rat	> 2000 mg/kg	
N-methyl-2-pyrrolidone (CAS 872-	-50-4)		
Acute			
Dermal			
LD50	Rat	> 5000 mg/kg	
Inhalation			
Mist	Det		
LC50	Rat	> 5.1 mg/l, 4 hours	
Oral	Rat	2605 malka	
LD50	Rat	3605 mg/kg	
Propylene Glycol (CAS 57-55-6)			
<u>Acute</u> Oral			
LD50	Rat	30 g/kg	
Triethylene glycol monobutyl ethe		00 g/kg	
Acute	(CAS 143-22-0)		
Dermal			
LD50	Rabbit	4 ml/kg	
Oral		5	
LD50	Rat	5300 mg/kg	
Skin corrosion/irritation	Causes skin irritation.	5 5	
Serious eye damage/eye	Causes serious eye damage.		
irritation			
Respiratory or skin sensitization			
Respiratory sensitization Skin sensitization	No data available. No data available.		
	No data available.		
Germ cell mutagenicity		earninggon by NTD IADC or OSUA	
Carcinogenicity	This product is not considered to be a	CAICHUYEH DY NIF, IARU, UI USHA.	
IARC Monographs. Overall Not listed. NTP Report on Carcinogens Not listed.	Evaluation of Carcinogenicity		

OSHA Specifically Regulated Not listed.	d Substances (29 CFR 1910.1001-1053)
Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	No data available.
Chronic effects	Prolonged exposure may cause chronic effects.
Further information	No other specific acute or chronic health impact noted.

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.

Components		Species	Test Results
N-(n-butyl)-thiophosphoric tri	amide (CAS 94	317-64-3)	
Aquatic			
Algae	EC50	Selenastrum capricornutum	280 mg/l, 96 hours
Crustacea	EC50	Daphnia magna	290 mg/l, 48 hours
	LC50	Daphnia	350 mg/l, 48 hours
Fish	LC50	Lepomis macrochirus	1140 mg/l, 96 hours
N-methyl-2-pyrrolidone (CAS	872-50-4)		
Aquatic			
Acute			
Algae	EC50	Scenedesmus subspicatus	> 500 mg/l, 72 Hours
Crustacea	EC50	Daphnia magna	> 1000 mg/l, 24 Hours
Fish	LC50	Oncorhynchus mykiss	> 500 mg/l, 96 Hours
Chronic			
Crustacea	NOEC	Daphnia magna	12.5 mg/l, 21 days
Propylene Glycol (CAS 57-5	5-6)		
Aquatic			
Crustacea	LC50	Water flea (Ceriodaphnia dubia)	18340 mg/l, 48 hours
Triethylene glycol monobutyl	ether (CAS 143	3-22-6)	
Aquatic			
Acute	1.050		2400 mg// 00 hours
Fish	LC50	Pimephales promelas	2400 mg/l, 96 hours
sistence and degradability	-	is not readily biodegradable.	
accumulative potential	No data avai		
Partition coefficient n-octa N-methyl-2-pyrrolidone (CAS		-0.54	
Propylene Glycol (CAS 57-5		-0.92	
bility in soil	This product	is water soluble and may disperse in soil.	
er adverse effects	No data avai	lable.	
. Disposal consideratio	ons		
posal instructions	Do not allow applicable re	this material to drain into sewers/water sugulations.	pplies. Dispose in accordance with all
zardous waste code	The waste co disposal com	ode should be assigned in discussion betw pany.	een the user, the producer and the waste

Waste from residues / unused products	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

15. Regulatory informatio	n			
US federal regulations	This product is a "Hazardou Standard, 29 CFR 1910.12	us Chemical" as de 00.	efined by the OSHA Hazard Communication	
TSCA Section 12(b) Ex	port Notification (40 CFR 70	7, Subpt. D)		
N-(n-butyl)-thiophos (CAS 94317-64-3)	phoric triamide	1.0 % One-Ti	me Export Notification only.	
N-methyl-2-pyrrolido CERCLA Hazardous Su	one (CAS 872-50-4) Ibstance List (40 CFR 302.4)		Export Notification required.	
Triethylene glycol m SARA 304 Emergency i	onobutyl ether (CAS 143-22-6 release notification	b) Listed.		
Not regulated.				
OSHA Specifically Reg Not listed.	ulated Substances (29 CFR	1910.1001-1053)		
Toxic Substances Control A		components of the ive".	mixture on the TSCA 8(b) inventory are desig	gnated
Superfund Amendments and Re SARA 302 Extremely hazard	-	SARA)		
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard	Skin corrosion or irritation			
categories	Serious eye damage or eye	e irritation		
	Reproductive toxicity			
		v (single or repeat	ed exposure)	
SARA 313 (TPI reporting)	Specific target organ toxicit	y (single or repeat	ed exposure)	
SARA 313 (TRI reporting) Chemical name	Specific target organ toxicit	y (single or repeat AS number	% by wt.	
	Specific target organ toxicit C/ 8			
Chemical name N-methyl-2-pyrrolidone	Specific target organ toxicit C/ 8	AS number 372-50-4	% by wt. 30 - 60	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations	Specific target organ toxicit C/ 8	AS number 372-50-4 43-22-6	% by wt. 30 - 60	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob	Specific target organ toxicit CA butyl ether 1	AS number 372-50-4 143-22-6 nts (HAPs) List	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob	Specific target organ toxicit Cr butyl ether 1 n 112 Hazardous Air Pollutar butyl ether (CAS 143-22-6)	AS number 372-50-4 143-22-6 nts (HAPs) List	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section	Specific target organ toxicit Cr butyl ether 1 n 112 Hazardous Air Pollutar butyl ether (CAS 143-22-6)	AS number 372-50-4 143-22-6 nts (HAPs) List	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act	Specific target organ toxicit C butyl ether 1 n 112 Hazardous Air Pollutar butyl ether (CAS 143-22-6) n 112(r) Accidental Release	AS number 372-50-4 143-22-6 nts (HAPs) List	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA)	Specific target organ toxicit CA butyl ether 1 n 112 Hazardous Air Pollutar butyl ether (CAS 143-22-6) n 112(r) Accidental Release Not regulated.	AS number 372-50-4 143-22-6 nts (HAPs) List	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S N-methyl-2-pyrrolidone (1	Specific target organ toxicit C/ butyl ether 1 n 112 Hazardous Air Pollutar butyl ether (CAS 143-22-6) n 112(r) Accidental Release Not regulated. Substance List CAS 872-50-4)	AS number 372-50-4 143-22-6 nts (HAPs) List Prevention (40 C	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S N-methyl-2-pyrrolidone (0 US. New Jersey Worker and	Specific target organ toxicit Cr butyl ether 1 n 112 Hazardous Air Pollutar butyl ether (CAS 143-22-6) n 112(r) Accidental Release Not regulated. Substance List CAS 872-50-4) d Community Right-to-Know	AS number 372-50-4 143-22-6 nts (HAPs) List Prevention (40 C	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S N-methyl-2-pyrrolidone (0 N-methyl-2-pyrrolidone (0	Specific target organ toxicit CA butyl ether 1 n 112 Hazardous Air Polluta butyl ether (CAS 143-22-6) n 112(r) Accidental Release Not regulated. Substance List CAS 872-50-4) d Community Right-to-Know CAS 872-50-4)	AS number 372-50-4 143-22-6 nts (HAPs) List Prevention (40 C	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S N-methyl-2-pyrrolidone ((US. New Jersey Worker and N-methyl-2-pyrrolidone ((Propylene Glycol (CAS 5	Specific target organ toxicit CA butyl ether 1 n 112 Hazardous Air Polluta butyl ether (CAS 143-22-6) n 112(r) Accidental Release Not regulated. Substance List CAS 872-50-4) d Community Right-to-Know CAS 872-50-4) 57-55-6)	AS number 372-50-4 143-22-6 nts (HAPs) List Prevention (40 C	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S N-methyl-2-pyrrolidone ((US. New Jersey Worker and N-methyl-2-pyrrolidone ((Propylene Glycol (CAS 5 Triethylene glycol monob	Specific target organ toxicit CA butyl ether 1 n 112 Hazardous Air Polluta butyl ether (CAS 143-22-6) n 112(r) Accidental Release Not regulated. Substance List CAS 872-50-4) d Community Right-to-Know CAS 872-50-4)	AS number 372-50-4 43-22-6 nts (HAPs) List Prevention (40 C	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S N-methyl-2-pyrrolidone ((US. New Jersey Worker and N-methyl-2-pyrrolidone ((Propylene Glycol (CAS 5 Triethylene glycol monob US. Pennsylvania Worker a N-methyl-2-pyrrolidone ((Specific target organ toxicit C, butyl ether 1 n 112 Hazardous Air Pollutar butyl ether (CAS 143-22-6) n 112(r) Accidental Release Not regulated. Substance List CAS 872-50-4) d Community Right-to-Know CAS 872-50-4) butyl ether (CAS 143-22-6) nd Community Right-to-Know CAS 872-50-4)	AS number 372-50-4 43-22-6 nts (HAPs) List Prevention (40 C	<mark>% by wt.</mark> 30 - 60 < 6	
Chemical name N-methyl-2-pyrrolidone Triethylene glycol monob Other federal regulations Clean Air Act (CAA) Section Triethylene glycol monob Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S N-methyl-2-pyrrolidone ((US. New Jersey Worker and N-methyl-2-pyrrolidone ((Propylene Glycol (CAS 5 Triethylene glycol monob US. Pennsylvania Worker a N-methyl-2-pyrrolidone ((Propylene Glycol (CAS 5	Specific target organ toxicit C, butyl ether 1 n 112 Hazardous Air Pollutar butyl ether (CAS 143-22-6) n 112(r) Accidental Release Not regulated. Substance List CAS 872-50-4) d Community Right-to-Know CAS 872-50-4) butyl ether (CAS 143-22-6) nd Community Right-to-Know CAS 872-50-4)	AS number 372-50-4 43-22-6 nts (HAPs) List Prevention (40 C	<mark>% by wt.</mark> 30 - 60 < 6	

US. Rhode Island RTK

Propylene Glycol (CAS 57-55-6)

California Proposition 65



WARNING: This product can expose you to N-methyl-2-pyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Developmental toxin

N-methyl-2-pyrrolidone (CAS 872-50-4) Listed: June 15, 2001

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

N-methyl-2-pyrrolidone (CAS 872-50-4)

Triethylene glycol monobutyl ether (CAS 143-22-6)

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)	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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
** ** * * * * * * * * *		

*A "Yes" indicates this product complies 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	31-March-2017
Revision date	13-May-2019
Version #	02
HMIS® ratings	Health: 3* Flammability: 1 Physical hazard: 0
NFPA ratings	3 0
List of abbreviations	EC50: Effective Concentration, 50%.
	LC50: Lethal Concentration, 50%.
References	EPA: Acquire database HSDB® - Hazardous Substances Data Bank

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet (SDS) and was prepared pursuant to Government regulation(s) that identify specific types of information to be provided. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of this (M)SDS.