

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : Hydrophilic Coating Formula B
Product code : includes versions 8-63, 8-3c, 10-125

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Coating

1.3. Details of the supplier of the safety data sheet

Coatings2Go
399 Concord Street
Carlisle MA, 01741 - USA
T 1-978-369-7411 - F 978-371-9940
info@coatings2go.com - COATINGS2GO.COM

1.4. Emergency telephone number

Emergency number : 1-978-369-7411

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Eye Irrit. 2A H319
Repr. 1B H360
Skin Irrit. 3 H316

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS08

GHS07

Signal word (GHS-US) :

: Danger

Hazard statements (GHS-US) :

: H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child
H316 - Causes mild skin irritation

Precautionary statements (GHS-US) :

: P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P264 - Wash face, hands thoroughly after handling
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308 + P313 - If exposed or concerned: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P362 + P363 - If skin irritation occurs: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container to approved facilities in accordance with local/regional/national regulations

2.3. Other hazards

Other hazards not contributing to the classification

: Not expected to produce significant adverse health effects when the recommended instruction for use are followed.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

Name	Product identifier	%	GHS-US classification *
N-methyl-2-pyrrolidone (Constituent)	(CAS No) 872-50-4	< 2.5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1B, H360 STOT SE 3, H335
Triethylamine (Constituent)	(CAS No) 121-44-8	< 0.5	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314

* See Section 16 for full text of GHS Classifications and H-phrases

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.
- First-aid measures after skin contact : Wash skin immediately with plenty of soap and water for at least 15 minutes. If redness, itching or a burning sensation develops, get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Inhalation of vapours may cause respiratory irritation.
- Symptoms/injuries after skin contact : This product contains a component which is a skin irritant based on similar materials.
- Symptoms/injuries after eye contact : This product contains a component which is an eye irritant based on similar materials. Vapor may cause irritation and temporary disturbance of vision. Liquid may produce severe irritation experienced as excess redness and swelling of the conjunctiva with chemical burns of the cornea.
- Symptoms/injuries after ingestion : May be harmful if swallowed.
- Chronic symptoms : Chronic exposure to organic solvents has been associated with central nervous system damage including memory loss and kidney and liver damage.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use water fog, foam carbon dioxide dry chemical, halogenated agents.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NOx).
- Explosion hazard : Not determined.

5.3. Advice for firefighters

- Firefighting instructions : The material will not support combustion unless the water has evaporated.
- Protection during firefighting : Wear self-contained breathing apparatus with full facepiece and full protective clothing. If contact occurs with material or its solutions, immediately flush with water and remove contaminated clothing.
- Other information : Irritating and highly toxic gases may be generated by thermal decomposition or combustion in a fire. Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NOx).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : No action shall be taken involving any personal risk without suitable training.

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6.1.1. For non-emergency personnel

- Protective equipment : Wear skin, eye and respiratory protection during cleanup. Floors may become slippery if spilled. Avoid breathing vapors.
- Emergency procedures : Evacuate unnecessary personnel. Do not touch or walk through spilled material. Use personal protective equipment as required.

6.1.2. For emergency responders

- Protective equipment : Wear skin, eye and respiratory protection during cleanup. Floors may become slippery if spilled.
- Emergency procedures : Avoid breathing vapors. Ventilate area. Wear recommended personal protective equipment.

6.2. Environmental precautions

Clean up any spills as soon as possible, using an absorbent material to collect it. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Refer to all applicable national, international and local regulations or provisions.

6.3. Methods and material for containment and cleaning up

- For containment : Stop spill if without risk. Move containers from spill area. Clean up any spills as soon as possible, using an absorbent material to collect it.
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
- Other information : Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Use only with adequate ventilation.
- Precautions for safe handling : This product which contains an aqueous dispersion of a polymer may be difficult to remove without injuring the skin if allowed to dry. Do not eat, drink or smoke when using this product.
- Hygiene measures : Eyewash station and safety shower required in work area. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Remove/Take off immediately all contaminated clothing. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep from freezing. Store, if possible, in a cool, well ventilated place away from incompatible materials. Store away from direct sunlight or other heat sources. Store at temperatures above 0 °C. Store in a well-ventilated place. Keep container tightly closed.
- Incompatible materials : Strong acids. amines.
- Storage temperature : > 0 °C
- Storage area : Store tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Triethylamine (121-44-8)		
USA ACGIH	ACGIH TWA (mg/m ³)	4.1 mg/m ³
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH STEL (mg/m ³)	12.4 mg/m ³
USA ACGIH	ACGIH STEL (ppm)	3 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	100 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	25 ppm
USA OSHA	OSHA PEL (STEL) (mg/m ³)	60 mg/m ³
USA OSHA	OSHA PEL (STEL) (ppm)	15 ppm

N-methyl-2-pyrrolidone (872-50-4)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	Remark (ACGIH)	Can be absorbed through the skin

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8.2. Exposure controls

Appropriate engineering controls : No ACGIH TLV or OSHA PEL is assigned to this mixture. Control of exposure to below the PEL for the ingredients may not be sufficient. . Provide adequate ventilation.

Personal protective equipment : Personal protective equipment should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling the product. Gloves. Safety glasses. chemical resistant apron. Insufficient ventilation: wear respiratory protection.



Materials for protective clothing : Nitrile rubber.

Hand protection : Wear suitable gloves resistant to chemical penetration.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. . Safety glasses with side-shields. Face shield if splashing is possible.

Skin and body protection : Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

Respiratory protection : Local exhaust or breathing protection. If needed, a NIOSH certified respirator for organic vapors, mists and fumes is recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Translucent. Viscous.
Colour : Milky
Odour : Mild amine
Odour threshold : No data available
pH : 7.5 - 9.5
Relative evaporation rate (butylacetate=1) : < 1
Melting point : No data available
Freezing point : No data available
Boiling point : > 100 °C
Flash point : > 100 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : ~1.05 g/ml
Solubility : Miscible with water.

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Keep from freezing.

10.5. Incompatible materials

Strong acids. amines.

10.6. Hazardous decomposition products

Carbon oxides (CO and CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Triethylamine (121-44-8)	
LD50 oral rat	730 mg/kg
LD50 dermal rabbit	580 mg/kg
LC50 inhalation rat (mg/l)	7.1 mg/l/4h
ATE US (oral)	730.00000000 mg/kg bodyweight
ATE US (dermal)	580.00000000 mg/kg bodyweight
ATE US (vapours)	7.10000000 mg/l/4h
ATE US (dust,mist)	1.50000000 mg/l/4h

N-methyl-2-pyrrolidone (872-50-4)	
LD50 oral rat	3914 mg/kg
LD50 dermal rabbit	8000 mg/kg
LC50 inhalation rat (ppm)	> 5100 ppm/4h
ATE US (oral)	3914.00000000 mg/kg bodyweight
ATE US (dermal)	8000.00000000 mg/kg bodyweight

Skin corrosion/irritation : Causes mild skin irritation
(Based on GHS criteria contained in Table 3.2.3)
pH: 7.5 - 9.5

Serious eye damage/irritation : Causes serious eye irritation.
pH: 7.5 - 9.5

Respiratory or skin sensitisation : Not classified
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified
(Based on available data, the classification criteria are not met)

Reproductive toxicity : May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)

Potential adverse human health effects and symptoms : Irritation: severely irritant to eyes. Irritating to mouth, throat and stomach.

Symptoms/injuries after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/injuries after skin contact : This product contains a component which is a skin irritant based on similar materials.

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Symptoms/injuries after eye contact	: This product contains a component which is an eye irritant based on similar materials. Vapor may cause irritation and temporary disturbance of vision. Liquid may produce severe irritation experienced as excess redness and swelling of the conjunctiva with chemical burns of the cornea.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Chronic symptoms	: Chronic exposure to organic solvents has been associated with central nervous system damage including memory loss and kidney and liver damage.
Other information	: Likely routes of exposure: inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Triethylamine (121-44-8)	
LC50 fishes 1	43.7 mg/l Pimephales promelas - 96 h
EC50 Daphnia 1	200 mg/l 48 h
LC50 fish 2	150 mg/l Oncorhynchus mykiss
LOEC (chronic)	3202 mg/l Danio rerio - 7 d

N-methyl-2-pyrrolidone (872-50-4)	
LC50 fishes 1	> 500 mg/l Leuciscus idus - 96 h
EC50 Daphnia 1	> 1000 mg/l 24 h
LC50 fish 2	4000 mg/l other fish - 96 h

12.2. Persistence and degradability

Hydrophilic Coating Formula B	
Persistence and degradability	Not available.

12.3. Bioaccumulative potential

Triethylamine (121-44-8)	
Log Pow	1.15

N-methyl-2-pyrrolidone (872-50-4)	
Log Pow	-0.046

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Collect all waste in suitable and labelled containers and dispose according to local legislation.
Waste disposal recommendations	: This material and its container must be disposed of in a safe way, and as per local legislation.
Additional information	: Not considered hazardous under US RCRA regulations. Empty containers contain product residue. Observe all hazard precautions. Remove all product residue from container and puncture or otherwise destroy the empty container before disposal. Do not distribute, furnish or reuse empty containers except for storage and shipment of original product.

SECTION 14: Transport information

DOT

Transport document description	: Not regulated
DOT NA no.	: Not regulated
DOT Proper Shipping Name	: Not regulated

Additional information

Other information	: No supplementary information available.
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ADR

Transport document description :
Class (ADR) : Not regulated
Danger labels (ADR) : Not applicable

Transport by sea

Class (IMDG) : Not subject

Air transport

Class (IATA) : Not subject

SECTION 15: Regulatory information

15.1. US Federal regulations

Hydrophilic Coating Formula B	
EPA TSCA Regulatory Flag	All components are included or exempt from listing on the TSCA Inventory of Chemical Substances.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313	0.2 % Triethylamine

15.2. International regulations

CANADA

All components of this product are listed on the Canada Domestic Substances List (DSL).

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

Hydrophilic Coating Formula B
All components of this product are listed on the Canada Domestic Substances List (DSL).

15.3. US State regulations

N-methyl-2-pyrrolidone (872-50-4)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
	Yes	Yes		

Triethylamine (121-44-8)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

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

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List.

SECTION 16: Other information

Revision date : 06/03/2016
Data sources : Previous SDS. Supplier SDS.
Training advice : Educate and train employees in the safe use and handling of this product. Follow all label instructions.

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Other information : The information contained in this Material Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications. We assigned HMIS ratings to this product based on the hazard(s) of its ingredients.

Full text of Classifications and H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 4	Flammable liquids, Category 4
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Irrit. 3	Skin corrosion/irritation, Category 3
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child

HMIS III Rating

Health : 1* Slight hazard, chronic effect

Flammability : 1 Slight Hazard

Physical : 0 Minimal Hazard

Personal Protection : X

SDS US (GHS HazCom 2012)

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