

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

1.1. Product identifier

Product form : Mixture
Trade name : Block-resistant Urethane Coating

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
01741 Carlisle MA - 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

Repr. 1B H360

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : H360 - May damage fertility or the unborn child
Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308+P313 - IF exposed or concerned: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container to approved disposal facility.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	GHS-US classification
N-methyl-2-pyrrolidone (Constituent)	(CAS No) 872-50-4	< 9	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Repr. 1B, H360 STOT SE 3, H335
Triethylamine (Constituent)	(CAS No) 121-44-8	< 2	Skin Corr. 1A, H314

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.

Block-resistant Urethane Coating

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	: No known significant effects or critical hazards.
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.

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

Block-resistant Urethane Coating

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 (ppm)	1 ppm Skin
USA ACGIH	ACGIH STEL (ppm)	2 ppm skin
USA OSHA	OSHA PEL (TWA) (mg/m ³)	100 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	25 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

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 : Bluish, milky white
- Odour : Mild amine
- Odour threshold : No data available
- pH : 7.5 - 9.5
- Relative evaporation rate (butylacetate=1) : < 1

Block-resistant Urethane Coating

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Self 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	: 1.06 g/l
Solubility	: Soluble in 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

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

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)	
ATE (oral)	500.000 mg/kg bodyweight
ATE (dermal)	1100.000 mg/kg bodyweight
ATE (dust,mist)	1.500 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 (oral)	3914.000 mg/kg bodyweight
ATE (dermal)	8000.000 mg/kg bodyweight

Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met)
pH: 7.5 - 9.5

Serious eye damage/irritation : Not classified
(Based on available data, the classification criteria are not met)
pH: 7.5 - 9.5

Block-resistant Urethane Coating

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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: Irritating to skin, eyes, respiratory tract
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	: No known significant effects or critical hazards.
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 fathead minnow - 96 h
EC50 Daphnia 1	200 mg/l 48 h
LC50 fish 2	150 mg/l rainbow trout
LOEC (chronic)	3202 mg/l zebra fish - 7 d

N-methyl-2-pyrrolidone (872-50-4)	
LC50 fishes 1	> 500 mg/l golden orfe - 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

N-methyl-2-pyrrolidone (872-50-4)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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.

Block-resistant Urethane Coating

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

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

Block-resistant Urethane Coating	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Reporting	8.9% n-Methyl-2-pyrrolidone 1.8 % 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

Block-resistant Urethane Coating
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
U.S. - Minnesota - Hazardous Substance List

Block-resistant Urethane Coating

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 16: Other information

Revision date	: 10/08/2014
Data sources	: SDS. Supplier.
Training advice	: Educate and train employees in the safe use and handling of this product. Follow all label instructions.
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 H-phrases: see section 16:

Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
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
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
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)

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. This information is based on the material as manufactured, it may not be valid for this material if used in combination with any other materials or in any process. Surface Solutions Labs/Coatings2Go shall not be held liable for any damage resulting from handling or from contact with the product(s).