



Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

1. IDENTIFICATION

Product Name	:	Nitrocellulose Lacquer (BMA-LNN200/210/217/220)
Colors	:	Clear
Material Uses	:	Paint for wood
Manufacturer	:	BMA Commercial and Industrial s.a.l Industrial Valley, Ain Saade Nahr El Mot 55091, North Metn Lebanon
Telephone Number	:	+961. 1. 885385 / 485
Emergency Phone Number	:	+961. 1. 885385 / 485
Fax Number	:	+961. 1. 885685
E-mail	:	info@bmapaints.com
Website	:	www.bmapaints.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Physical State	:	Liquid
Flammability	:	Flammable liquid – Category 2
Eyes	:	Serious Eye Damage / Irritation – Category 2A

Label Elements

Hazard Pictograms



Signal Word: **DANGER**



Hazard Statements

H225	: Highly flammable liquid and vapour.
H302	: Harmful if swallowed.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H322	: Harmful if inhaled.

Precautionary Statements

Prevention

P210	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	: Keep container tightly closed.
P240	: Ground/Bond container and receiving equipment.
P242	: Use only non-sparking tools.
P243	: Take precautionary measures against static discharge.
P281	: Use personal protective equipment as required.

Response

P303+P361+P353	: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378	: In case of fire: Use foam, dry agent (carbon dioxide, dry chemical powder) for extinction.

Storage

P403 + P235	: Store in a well-ventilated place. Keep cool.
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Disposal

P501	: Dispose of contents/container in accordance with local regulations.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by weight</u>
Alkyd Resin	Proprietary	10 – 30
Nitrocellulose Resin	9004-70-0	10 – 30
Toluene	108-88-3	10 – 40
Propan-2-ol	67-63-0	1 – 10
Butan-1-ol	71-36-3	1 – 10



n-Butyl acetate	123-86-4	10 – 20
Ethyl Acetate	141-78-6	1 – 10
Methyl Ethyl Ketone	78-93-3	1 – 10
Di butyl Phthalate	84-74-2	0 – 2
Ingredients determined not to be hazardous	-	To 100

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 Hazard Communication Standard

4. FIRST-AID MEASURES

Eye Contact	:	Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully without rubbing eyes. Consult a physician if irritation persists.
Skin Contact	:	Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Consult a physician in case of a lasting irritation.
Inhalation	:	Get medical advice immediately. Remove to fresh air, away from the accident scene and keep at rest in a position comfortable for breathing. If the subject stops breathing, administer artificial respiration.
Ingestion	:	Have the subject drink as much water as possible. Get medical advice immediately and show this SDS. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Flammability of the Product	:	Classed as flammable.
Products of Combustion	:	If involved in a fire, it may emit noxious and toxic fumes.
Suitable Extinguishing Media	:	Use foam, dry agent (carbon dioxide, dry chemical powder) for extinction.
Not Suitable Extinguishing Media	:	Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.
Fire Fighting	:	Highly flammable liquid. Keep containers cool with water spray. Keep storage tanks, pipelines, fire exposed surfaces etc. cool with water spray. Shut off





any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively and flashback along the vapour trail may occur. On burning will emit toxic fumes. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

: Block the leakage if there is no hazard. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

Environmental Precautions

: The product must not penetrate into the sewer system or come into contact with surface water or ground water.

Methods and materials for containment and cleaning up

: Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling

: Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment. Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid



bunching of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

Conditions for Safe Storage	: Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details. Store in a well-ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace Control Parameters

<u>Product name</u>	<u>Exposure Limit</u>
Toluene	: ACGIH: 20 ppm TWA
n-Butyl acetate	: ACGIH: 150 ppm TWA; 200 ppm STEL NIOSH: 150 ppm TWA; 710 mg/m ³ TWA; 1700 ppm IDLH OSHA – Final PELs: 150 ppm TWA; 710 mg/m ³ TWA
Ethyl Acetate	: NIOSH REL: TWA 400 ppm (1400 mg/m ³) OSHA PEL: TWA 400 ppm (1400 mg/m ³) ACGIH 1997: TLV: 400 ppm (1400 mg/m ³) IDLH: 2000 ppm OEL – AUSTRALIA: TWA 400 ppm (1400 mg/m ³)
Propan-2-ol	: ACGIH: 200 ppm TWA; 400 ppm STEL
Butanol	: ACGIH: 20 ppm TWA
Methyl Ethyl Ketone	: ACGIH: 200 ppm TWA; 300 ppm STEL
Di Butyl Phthalate	: ACGIH: 5 mg/m ³ TWA

Exposure Controls

Respiratory Protection	: Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate threshold value. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted approved respirator for organic solvent vapours. A
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	dust mask does not provide protection against vapours.
Eye Protection	: Use Tightly fitting safety goggles to avoid exposure to liquid splashes.
Hand Protection	: Protective hands with category III work gloves.
Body Protection	: Wear suitable coveralls to prevent exposure to the skin.
Hygiene Measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Viscous liquid
Color	: Light brown
Odor	: Ester odor
Odor Threshold	: Not available
pH	: Not available
Melting Point / Freezing Point	: Not available
Initial Boiling Point	: Not determined
Boiling Range	: Not available
Flash Point	: < 23 °C
Evaporation Rate	: Not available
Flammability of Solids and Gases	: Not available
Lower Inflammability Limit	: Not available
Upper Inflammability Limit	: Not available
Lower Explosive Limit	: Not available
Upper Explosive Limit	: Not available
Vapour Pressure	: Not available
Relative Density (g/cm³)	: 1.0 ± 0.1
Partition Coefficient: n-octanol/water	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Viscosity	: Not available
Explosive Properties	: Not available
Oxidising Properties	: Not available
VOC Content (g/L)	: 500 – 700 (depends on gloss level)
Water Solubility	: Insoluble



10. STABILITY AND REACTIVITY

Stability and Reactivity	: The product can decompose and/or react violently. The product is stable in normal conditions of use and storage. It reacts with oxidizing agents.
Conditions to avoid	: As the product decomposes even at ambient temperature, it must be stored and used at a controlled temperature. Avoid violent blows. Avoid oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Specific information about the product itself are not available.

Component: *n-Butyl acetate*

Acute Oral Toxicity	: LD50 (Mouse) = 6 mg/Kg LD50 (Rabbit) = 3,200 mg/Kg LD50 (Rat) = 10,768 mg/Kg
Acute Dermal Toxicity	: LD50 (Rat): > 17,600 mg/Kg
Acute Inhalation Toxicity	: LC50 (Rat) = 390 ppm/4H LC50 (Mouse) = 6 mg/m ³ /2H
Draize Test	: Rabbit, eye: 100 mg; Moderate Rabbit, skin: 500 mg/24H; Moderate

Component: *Toluene*

Acute Oral Toxicity	: LD50 (Rat) = 5,000 mg/Kg
Acute Dermal Toxicity	: LD50 (Rabbit) = 12,667 mg/Kg
Acute Inhalation	: LC50 (Rat) = 25.7 mg/L/4H

Component: *Ethyl Acetate*

Acute Oral Toxicity	: LD50 (Rat) = 5,620 mg/Kg
Acute Dermal Toxicity	: LD50 (Rabbit): > 20 g/Kg
Acute Inhalation	: LC50 = 200,000 mg/m ³

Component: *Methyl Ethyl Ketone*

Acute Oral Toxicity	: LD50 (Rat) = 2,193 mg/Kg
Acute Dermal Toxicity	: LD50 (Rabbit): > 8,050 mg/Kg
Acute Inhalation	: LC50 (Rat): > 5,000 ppm

Component: *Butanol*

Acute Oral Toxicity	: LD50 (Female Rat) = 2,292 mg/Kg
Acute Dermal Toxicity	: LD50 (Rabbit) = 3,430 mg/Kg
Acute Inhalation	: LC50 (Rat) > 17.76 mg/L/4H





Component: Propan-2-ol

Acute Oral Toxicity	:	LD50 (Rat) = 4,710 mg/Kg
Acute Dermal Toxicity	:	LD50 (Rat) = 12,800 mg/Kg
Acute Inhalation	:	LC50 (Rat) = 72.6 mg/L/4H

Component: Di Butyl Phthalate

Acute Oral Toxicity	:	LD50 (Rat) = 7,499 mg/Kg
Acute Dermal Toxicity	:	LD50 (Rabbit): > 20 mL/Kg
Acute Inhalation Toxicity	:	LC50 (Rat) = 4,250 mg/m ³

Component: Cellulose Nitrate

Acute Oral Toxicity	:	LD50 (Rat): ≥ 5,000 mg/Kg
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12. ECOLOGICAL INFORMATION

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on aquatic environment.

Toxicity

Component: Toluene

LC50 – For Fish	:	5.5 mg/L/96H – Oncorhynchus kisutch
EC50 – For Crustacea	:	3.78 mg/L/48H – Ceriodaphnia dubia
EC50 – For Algae	:	12.5 mg/L/72H – Pseudokirchneriella subcapitata
Chronic NOEC for Fish	:	1.39 mg/L – Oncorhynchus kisutch – 40 days
Chronic NOEC for Crustacea	:	0.74 mg/L Daphnia magna – 7 days
Chronic NOEC for Algae	:	10 mg/L Skeletonema costatum

Component: Butanol

LC50 – For Fish	:	1,376 mg/L/96H – Pimephales promelas
EC50 – For Crustacea	:	18 mg/L/48H – Daphnia magna

Component: Propan-2-ol

EC50 – For Crustacea	:	> 100 mg/L/48H – Daphnia – Leuciscus idus melanotus
EC50 – For Algae	:	> 100 mg/L/72H – Scenedesmus subspicatus

Component: Methyl Ethyl Ketone

LC50 – For Fish	:	2,993 mg/L – Pimephales promelas
EC50 – For Crustacea	:	> 308 mg/L/48H – Daphnia – Leuciscus Doratus
EC50 – For Algae	:	> 100 mg/L/72H – Desmodesmus subspicatus



Component: Ethyl Acetate

LC50 – For Fish	: 230 mg/L/96H – Pimephales promelas
EC50 – For Algae	: > 100 mg/L/72H – Desmodesmus subspicatus
Chronic NOEC for Crustacea	: 2.4 mg/L – Daphnia magna – 21 days
Chronic NOEC for Algae	: > 100 mg/L – Desmodesmus subspicatus

Component: N-Butyl Acetate

LC50 – For Fish	: 18 mg/L/96H – Pimephales promelas
EC50 – For Crustacea	: 44 mg/L/48H – Daphnia magna
EC50 – For Algae	: 647 mg/L/72H – Desmodesmus subspicatus
Chronic NOEC for Algae	: 200 mg/L – Desmodesmus + mus subspicatus

Component: Cellulose Nitrate

LC50	: 730 mg/L/96H – Selenastrum capricornutum
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Persistence and Degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

Product	Description
Toluene	: Rapidly biodegradable
Butanol	: Solubility in water: 1,000 – 10,000 mg/L Rapidly biodegradable
Propan-2-ol	: Rapidly biodegradable
Methyl Ethyl Ketone	: Solubility in water: > 10,000 mg/L Rapidly biodegradable
Ethyl Acetate	: Solubility in water: > 10,000 mg/L Rapidly biodegradable
N-Butyl Acetate	: Solubility in water: 1,000 – 10,000 mg/L Rapidly biodegradable
Cellulose Nitrate	: Biological degradation: ~ 20% after 28 days

Bio accumulative Potential

Product	Partition Coefficient n-octanol/water	BCF
Toluene	: 2.73	90
Propan-2-ol	: 0.05	<4
Methyl Ethyl Ketone	: 0.3	
Ethyl Acetate	: 0.68	30
N-Butyl Acetate	: 2.3	15.3





Mobility in Soil

Product	Partition Coefficient soil/water
Butanol	: 0.388
N-Butyl Acetate	: < 3

13. DISPOSAL CONSIDERATIONS


Waste Treatment Methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. TRANSPORT INFORMATION

	ADR/RID	IMDG	ICAO/IATA
TRANSPORTATION	Road	Marine	Airways
PROPER SHIPPING NAME	Paint Related Material		
UN/ID No.	1263		
SYMBOL			
CLASS	3		
PACKING GROUP	II		
LABELLING NO	3		
Environmental Hazards (MARINE Pollutant)	No		
HAZARD NO (HIN NO)	Kemler: 33		
EmS		F-E, S-E	
HS CODE	32089011		



15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category – Directive 2012/18/EC: P5c-H3

Restrictions related to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

PRODUCT	
Point	: 3 – 40
CONTAINED SUBSTANCE	
Point	: 48 Toluene Reg. no: 01-2119471310-51
SUBSTANCES IN CANDIDATE LIST (Art. 59 REACH)	
Di Butyl Phthalate	
SUBSTANCES SUBJECT TO AUTHORIZATION (ANNEX XIV REACH)	
Di Butyl Phthalate	
SUBSTANCES SUBJECT TO EXPORTATION REPORTING PURSUANT TO (EC) Reg. 689/2008	
None	
SUBSTANCES SUBJECT TO THE ROTTERDAM CONVENTION	
None	
SUBSTANCES SUBJECT TO THE STOCKHOLM CONVENTION	
None	

16. OTHER INFORMATION

Date of Issue : | 18-01-2019

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

