

**AMG NAIL PRODUCTS**  
**MATERIAL SAFETY DATA SHEET**

**SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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**CHEMICAL NAME:** Methacrylate Monomer Blend

**PRODUCT NAME:** Low Odor Premium Violet-Ultra Violet Monomer (EMA)

**TRADE NAME/PRODUCT CODE:** LQ 02-03; LQ 02-04; HC SUNSHIELD NAIL LIQUID FAST DRY

**PRODUCT USE:** Organic Process Chemical

**MANUFACTURER:** AMG NAIL PRODUCTS CORP  
**ADDRESS:** 10855 FALLSTONE RD  
HOUSTON, TX.77099

**CELL:** 347-400-1911  
**FAX:** 281-742-2561  
**24 HR. EMERGENCY TELEPHONE:** CHEMTREC: 1-800-424-9300

**SECTION 2 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** WARNING – FLAMMABLE LIQUID AND VAPORS. Irritating to eyes, skin and respiratory system. May cause sensitization by skin contact. Unstable/reactive upon depletion of inhibitor.

**Routes of Exposure:** Inhalation, Skin or Eyes.

**Physical Hazards:** Unstable/Reactive upon depletion of inhibitor. Check inhibitor levels periodically.

**Acute Health Hazards:** See section 11 for more information.

**Eyes:** Liquid and vapors can cause moderate irritation. Symptoms may include tears, blurred vision and redness.

**Skin:** May cause skin irritation and can cause skin sensitization. HEMA may cause an allergic skin reaction which becomes evident after repeat exposure. DMPT is rapidly absorbed through the skin.

**Inhalation:** High concentration is irritating to the respiratory tract and may cause dizziness, headache and anesthetic effects. DMPT may cause high methemoglobin levels in the blood. Additional symptoms may include blueish lips and fingernails.

**Ingestion:** Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**Conditions Aggravated by Exposure:** May cause more significant skin irritation in people with pre-existing skin conditions. Extensive exposure to DMPT may aggravate cardiac, respiratory and/or skin conditions.

**Chronic Health Hazards:** See section 11 for details.

**Carcinogenicity:** See section 11 details.

**Potential Environmental:** See section 12 for details.

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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

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ITEM	CHEMICAL NAME	CAS #:	EINECS #	R Phrases	WT/WT %
01	Ethyl Methacrylate Monomer	97-63-2	202-597-5	R11, R36/37/38, R43	60.0-100.0
02	Hydroxypropyl Methacrylate (HPMA)	27813-02-1	248-666-3	NA	10.0-30.0
03	Alkyl Dimethacrylate	109-17-1	203-653-1	NA	7.0-13.0
04	Dimethyl-p-Toluidine (DMPT)	99-97-8	202-805-4	R20/21/22, R33	1.0-5.0

Note this material contains an inhibitor (HQ, MEHQ, etc) at <1%. The type and amount meet product specifications. Contact manufacturer for exact concentration and details on inhibitor level maintenance.

**SECTION 4 - FIRST AID MEASURES**

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**EMERGENCY AND FIRST AID PROCEDURES:**

EYES:	If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
SKIN:	Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.
INHALATION:	Remove to fresh air. Seek immediate medical attention.
INGESTION:	If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.
CLOTHING:	Remove contaminated clothing, wash thoroughly before reuse.
TREATMENT:	Treat symptoms conventionally, after thorough decontamination.

**NOTE TO PHYSICIANS:**

This product contains N,N-Dimethyl-p-Toluidine at a low concentration (Refer to Section 3). While complications from this component are not expected, the presence of this material in the body leads to formation of methemoglobin, which in sufficient concentration causes cyanosis. This is reversed spontaneously after termination of exposure. Treat cyanosis with supportive measures such as bed rest and oxygen inhalation. Thorough cleanse the entire contaminated area of the body. If extensive cyanosis is present, treat with methylene blue and vitamin B12.

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**SECTION 5 - FIRE FIGHTING MEASURES**

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<b>FLASH POINT:</b>	Refer to Section 9 for details.
<b>SUITABLE EXTINGUISHING MEDIA:</b>	Chemical foam, carbon dioxide, dry chemical.
<b>UNSUITABLE EXTINGUISHING MEDIA:</b>	Water may not be effective in extinguishing this fire.
<b>PRODUCTS OF COMBUSTION:</b>	Oxides of Carbon
<b>FIRE AND EXPLOSION HAZARDS:</b>	High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. This product is a flammable liquid. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Vapor forms an explosive mixture with air.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Use a water spray or fog to reduce or direct vapors, and keep containers cool. Water may not be effective in actually extinguishing a fire involving this product. Do not enter fire area without proper protection. Fight fire from a safe location. Structural firefighters must wear SCBAs and full protective equipment. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.
<b>SENSITIVE TO MECHANICAL IMPACT:</b>	No.
<b>SENSITIVE TO STATIC DISCHARGE:</b>	Yes.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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<b>PERSONAL PRECAUTIONS:</b>	Review Section 5 before proceeding with clean-up. Individuals involved must wear appropriate Personal Protective Equipment that is specified in Section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.
<b>METHODS FOR CONTAINMENT:</b>	Dike and contain spill with inert, non-combustible material (e.g. sand or earth).
<b>METHODS FOR CLEAN-UP:</b>	Evacuate personnel, maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of monomer release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Refer to Section 13 for additional information. Wash all affected areas with plenty of warm water and soap.

**AMG NAIL PRODUCTS**  
**MATERIAL SAFETY DATA SHEET**  
**SECTION 7- HANDLING AND STORAGE**

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**HANDLING PROCEDURES:** Keep away from heat, sparks, and flame. Keep container closed after each use. Ground and bond all containers when transferring. Refer to Section 8 for suggested exposure controls and personal protection. Observe precautions found on label.

**STORAGE PROCEDURES:** Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Store in accordance with National Fire Protection Association recommendations. Check inhibitor levels periodically, adding to the bulk material if needed. Maintain at a minimum, the original 2-inch headspace in the product container and do not blanket or mix with oxygen-free gas as it renders the inhibitor ineffective. Vapors are uninhibited and may form polymers in vents or flame arresters, resulting in blockage of vents. Product residue may remain in empty containers. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

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ITEM*	ACGIH		OSHA	
	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING
Ethyl Methacrylate Monomer	NE	NE	NE	NE
Hydroxypropyl Methacrylate (HPMA)	NE	NE	NE	NE
Alkyl Dimethacrylate	NE	NE	NE	NE
Dimethyl-p-Toluidine	NE	NE	NE	NE

. \* Abbreviations can be found in Section 16

**ENGINEERING CONTROLS:**

Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**RESPIRATORY PROTECTION:**

A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

**EYE/FACE PROTECTION:**

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

**HAND/SKIN PROTECTION:**

Avoid skin contact. Wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

**GENERAL HYGIENE CONSIDERATIONS:**

Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

**AMG NAIL PRODUCTS**  
**MATERIAL SAFETY DATA SHEET**  
**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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*For EMA:*

<b>APPEARANCE/COLOR:</b>	Clear
<b>PHYSICAL STATE:</b>	Oily liquid.
<b>ODOR:</b>	Acrid odor.
<b>ODOR THRESHOLD:</b>	ND
<b>pH:</b>	NE
<b>FREEZING POINT:</b>	<-50 °C
<b>BOILING POINT:</b>	118 °C
<b>FLASH POINT (closed cup):</b>	19 °C
<b>EVAPORATION RATE (BuAc =1):</b>	NE
<b>FLAMMABLE LIMIT, AIR VOL% LOWER:</b>	1.8
<b>UPPER:</b>	NE
<b>VAPOR PRESSURE:</b>	20 mm Hg @ 20 °C, 68 °F
<b>VAPOR DENSITY (AIR=1):</b>	3.94
<b>RELATIVE DENSITY:</b>	NE
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	0.909 @ 20 °C, 68 °F
<b>SOLUBILITY IN WATER:</b>	0.5% @ 20 °C, 68 °F
<b>AUTOIGNITION TEMPERATURE:</b>	NE
<b>DECOMPOSITION TEMPERATURE:</b>	ND
<b>PERCENT VOLATILE W/W%:</b>	NE

**SECTION 10 - STABILITY AND REACTIVITY**

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<b>STABILITY:</b>	Unstable/Reactive upon depletion of inhibitor and/or heat.
<b>CONDITIONS TO AVOID:</b>	Avoid excessive temperatures, localized heat sources (example drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.
<b>INCOMPATIBLE MATERIALS:</b>	Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxides of Carbon when burned.
<b>HAZARDOUS POLYMERIZATION:</b>	MAY OCCUR: X      WILL NOT OCCUR:
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	MAY OCCUR: X      WILL NOT OCCUR:

**AMG NAIL PRODUCTS**  
**MATERIAL SAFETY DATA SHEET**  
**SECTION 11- TOXICOLOGICAL PROPERTIES**

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**TARGET ORGANS:**

For Ethyl Methacrylate: None known.  
For Hydroxypropyl Methacrylate: None known.  
For Alkyl Dimethacrylate: None known.  
For N,N-Dimethyl-p-Toluidine: Liver, Central Nervous System, Blood and Skin.

**SYMPTOMS:** Refer to Section 2 for information.

**IMMEDIATE/DELAYED EFFECTS:** Refer to Section 2 for information.

**TOXICITY DATA:**

This product has NOT been tested on animals to obtain toxicology data. There are extensive toxicological data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. If you need more information, please contact American Nail & Beauty Supply at the telephone number found in Section 1. Some data is presented below:

For Ethyl Methacrylate Monomer:

Inhalation Rat, LC <sub>50</sub> :	8300 ppm/4H.
Oral Rat, LD <sub>50</sub> :	13468 mg/kg.
Skin absorption, Rabbit, LD <sub>50</sub> :	>10,000 mg/kg.

For HPMA:

Oral Rat, LD <sub>50</sub> :	>5000 mg/kg.
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For N,N-Dimethyl-p-Toluidine:

Inhalation Rat, LC <sub>50</sub> :	2540 ppm/4H.
Oral Rat, LD <sub>50</sub> :	1650 mg/kg.

**SENSITIZATION:**

For HPMA: Acute Dermal Rat, LD<sub>50</sub>: >5000 mg/kg.  
For N,N-Dimethyl-p-Toluidine: Acute Dermal Rat, LD<sub>50</sub>: >2000 mg/kg.

**IRRITANCY:**

No data available.

**CHRONIC EXPOSURE:**

Carcinogenicity: None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens. Ethyl Methacrylate is unlikely to present a cancer hazard to humans. Ethyl Methacrylate has been used for many years with no evidence of adverse effects.

Reproductive Toxicity: No data available.

Teratogenicity: No data available.

Mutagenicity Data: Ethyl Methacrylate is not reported to produce mutagenic effects in humans.

**NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** No data available.

**AMG NAIL PRODUCTS**  
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**SECTION 12 - ECOLOGICAL INFORMATION**

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**ECOTOXICITY:**

**AQUATIC:**

For Ethyl Methacrylate Monomer:	Daphnia Magna, EC <sub>50</sub> :	> 66 mg/L/48H.
	Rainbow Trout, LC <sub>50</sub> :	100 mg/L/96H.
	Algae, EC <sub>50</sub> :	>70 mg/L/72H.

**SOIL:** No data available.

**AIR:** No data available.

**ENVIRONMENTAL FATE:**

**Persistence and Degradability:**

For Ethyl Methacrylate Monomer:

**Biodegradation:** Inherently biodegradable 79% in 28 days.

**Bioaccumulative Potential:** None known.

**Mobility in soil:** Not known.

**Other Adverse effects:** None known

**SECTION 13 - DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:**

When discarded it is a hazardous waste by the EPA under RCRA. The reportable quantity (RQ) for Ethyl Methacrylate is 1000 pounds (40 CFR Part 302). After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations.

**DISPOSAL OF EMPTY CONTAINERS:**

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

**SECTION 14 – TRANSPORTATION INFORMATION**

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**DOT (GROUND)**

**PROPER SHIPPING NAME:** ETHYL METHACRYLATE, STABILIZED, SOLUTION

**TECHNICAL NAME:** Not applicable.

**DOT/UN CLASS:** 3

**NA/UN NUMBER:** UN 2277

**PACKING GROUP:** II

**DOT RQ:** For Ethyl Methacrylate: 1000 lb.

**MARINE POLLUTANT:** No.

**AMG NAIL PRODUCTS**  
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**SECTION 15 - REGULATORY INFORMATION**

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**United States:**

OSHA: This material is considered Hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

TSCA Inventory Status: The components of this product are listed or exempt from listing on the TSCA Inventory.

SARA Section 302: There are no specific Threshold Planning Quantities for the components of this product.

SARA Section 311/312: Immediate (Acute) Health; Reactive; Fire

SARA Section 313: There are reporting requirements for this product. Contact AMG Nail Products if additional information is required.

CERCLA Reportable Quantity (RQ): For Ethyl Methacrylate: 1000 lb.

State Regulatory Information: This product may contain components that are covered under specific state criteria.

California Prop 65: Alkyl Methacrylate monomer contains or may contain substances known to the state of California to cause cancer and/or reproductive toxicity.

**Canada:**

DSL/NDSL: The components of this product are listed on the DSL.

WHMIS Hazard Class: B2, D2B  
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. None of the components of this product are listed on the Priorities Substances List.

**Europe:**

EINECS: The components of this product are listed or exempt from listing in EINECS.

Candidate List: None of the components of this product are listed on the Candidate List.

CSR Available: No.

HAZARD SYMBOLS: F- Flammable, Xi – Irritant

RISK STATEMENTS: R11 – Highly Flammable  
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.  
R33 - Danger of cumulative effects  
R36/37/38 – Irritating to eyes, respiratory system, and skin.  
R43 – May cause sensitization by skin contact

SAFETY STATEMENTS: S9 – Keep container in well-ventilated place.  
S16 - Keep away from sources of ignition. No smoking.  
S28 - After contact with skin, wash immediately with plenty of water.  
S29 – Do not empty into drains.  
S33 - Take precautionary measures against static discharges.  
S36/37 – Wear suitable protective clothing and gloves.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

**AMG NAIL PRODUCTS**  
**MATERIAL SAFETY DATA SHEET**  
**SECTION 16 - OTHER INFORMATION**

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**HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:**

HEALTH:	2
FLAMMABILITY:	3
REACTIVITY:	2
PERSONAL PROTECTIVE EQUIPMENT:	Gloves and Safety Glasses or Chemical Splash Goggles.

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:**

HEALTH:	2
FLAMMABILITY:	3
REACTIVITY:	2
SPECIAL INFORMATION:	NA

**ABBREVIATIONS:**

NA	Not Applicable	ND	Not Determined
NE	Not Established		
ppm	parts per million	G L	Gallon
mg	Milligram	mol	Liter
gm	Gram	μ	Mole
kg	Kilogram	p	Micro
mm	Millimeter	c	Pico
Pa	Pascals		cento
LC	Lethal Concentration Toxic	LD	Lethal Dose
TC	Concentration Biological	TD	Toxic Dose
BOD	Oxygen Demand Lowest	COD	Chemical Oxygen Demand
Lo	Threshold Limit	ThOD	Theoretical Oxygen Demand
TLm	Dissolved Organic Carbon	IC	Inhibitory Concentration
DOC			
H	Hours	M	Months
D	Days	Y	Years
W	Weeks		

ACGIH	American Conference of Governmental Industrial Hygienist
CPR	Controlled Product's Regulation
CSR	Chemical Safety Report
DOT	Department of Transportation
DSL	Canadian Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
IARC	International Agency for Research for Cancer
NDSL	Canadian Non-Domestic Substance List
NOEL	No Observed Effect Level
NOAEL	No Observed Adverse Effect Level
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
WHMIS	Workplace Hazardous Materials Information System

AMG NAIL PRODUCTS  
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**SECTION 16 - OTHER INFORMATION CONTINUED**

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Revision Information: Changes have been made to the content of this MSDS as indicated by the thick lines in the left margin when compared with the previously issued MSDS. The MSDS has also been formatted to comply with ANSI, GHS, and EU suggested layout. Only data change information has been highlighted as indicated above.

*THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.*