

SAI Global File #004008

Burlington, Ontario, Canada

9200FR-B

FLAME RETARDANT STRUCTURAL EPOXY ADHESIVE

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: 9200FR-B

Other Means of Identification: Flame Retardant Structural Epoxy Adhesive (Part B)

Related Part # 9200FR-25ML, 9200FR-50ML

Recommended Use and Restriction on Use

Use: Epoxy adhesive hardener for use with resins

Uses Advised Against: Not for use as a spray coating

Details of Manufacturer or Importer

Manufacturer

MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6

CANADA

+1-800-340-0772 +1-800-340-0773 FAX E-MAIL support@mgchemicals.com **W**EB www.mgchemicals.com

MG Chemicals (Head Office)

9347-193 Street

Surrey, British Columbia V4N 4E7

CANADA

+1-905-331-1396 +1-905-331-2682 FAX E-MAIL info@mgchemicals.com

E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents) USA or CANADA—Call Verisk 3E at +1-866-519-4752 or +1-760-476-3962

(Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service CANADA—Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones

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Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Criteria	-	Category	Signal Word	Pictograms
Serious Eye Damage		1	Danger	Corrosion
Reproductive Toxicity		2	Warning	Health
Irritation	Skin	2	Warning	Exclamation
Sensitization	Skin	1	Warning	Exclamation
Acute Toxicity	Oral	4	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	2	none	Environment

Note: The degree of severity is ranked within each hazard class from

Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H318: Causes serious eye damage
	H361: May damage fertility or the unborn child if swallowed
	H315: Causes skin irritation
	H317: May cause an allergic skin reaction
	H302: Harmful if swallowed

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^{1 (}Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.



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Hazard Statements		
H411: Toxic to aquatic life with long lasting effects		
Precautionary Statements		
Keep out of reach of children.		
Obtain special instructions before use. Do not handle all safety precautions have been read and understood.		
Wear protective gloves and eye protection.		
Avoid breathing fumes and vapors.		
Wash hands thoroughly after handling.		
Do not eat, drink or smoke when using this product.		
Contaminated work clothing should not be allowed out of the workplace.		
Avoid release to the environment.		
Precautionary Statements		
IF exposed or concerned. Get medical advice or attention.		
IF ON SKIN: Wash with plenty of water.		
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Immediately call a POISON CENTER or doctor.		
If skin irritation or rash occurs: Get medical advice or attention.		
Take off contaminated clothing and wash it before reuse.		
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth		
Collect spillage.		
Precautionary Statements		

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Disposal	Precautionary Statements
P501	Dispose of contents in accordance to local, regional, national, and international regulations.

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
None	None	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
68683-29-4	ATBN polymer	23%
21645-51-2	aluminum trihydrate	22%
68333-79-9	ammonium polyphosphate	20%
68410-23-1	fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	18%
68082-29-1	fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	7%
138265-88-0	zinc borate	6%
112-24-3	triethylenetetramine	1%
140-31-8	2-piperazin-1-ylethylamine (AEP)	1%



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Section 4: First-Aid Measures			
Exposure Condition	GHS Code: Precautionary Statement		
IF IN EYES	P305 + P351 + P338, P310		
Immediate Symptoms	redness, severe irritation, pain, burns		
Response	Rinse cautiously with water for 30 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing.		
	Immediately call a POISON CENTER or doctor.		
IF ON SKIN	P302 + P352, P362 + P364, P333 + P313		
Immediate Symptoms	redness, irritation, rash (allergic contact dermatitis)		
Response	Wash with plenty of water.		
	Take off immediately all contaminated clothing and wash it before reuse.		
	If skin irritation or rash occurs: Get medical advice or attention.		
IF SWALLOWED	P301 + P330 + P331, P312, P308 + P313		
Immediate Symptoms	irritation, abdominal pain, nausea, vomiting, burning sensation		
Response	Rinse mouth. Do not induce vomiting.		
	Call a POISON CENTER or doctor if you feel unwell.		
	IF exposed or concerned. Get medical advice or attention.		
IF INHALED	P304 + P340		
Immediate Symptoms	cough, sore throat, irritation of the respiratory track, burning sensation		
Delayed Symptoms	asthma, difficulty breathing		
Response	Remove person to fresh air and keep comfortable for breathing.		

Advice to Physicians

In case of over exposure to nitrogen oxides (NOx) combustion products or triethylenetetramine vapors during a fire, the symptoms may be delayed. For significant exposures, the exposed person should be kept under medical surveillance for 48 hours.

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Section 5: Fire-Fighting Measures

Extinguishing Media In case of fire: Use extinguishing media suitable for surrounding

materials.

Specific Hazards Not flammable or combustible, but burns if involved in a fire.

Produces irritating and toxic fumes in fires or in contact with hot

surfaces.

Inhalation of aluminum oxide and zinc oxide fumes may cause metal fever and irritate the respiratory tract. The flu-like symptoms of metal fever may be delayed, occurring 4 to 12

hours after exposure.

Inhalation of toxic smoke during fire may have delayed effects. Exposed person may need to be put under surveillance for 48 h.

Toxic for aquatic environment: Prevent fire-fighting wash from

entering waterway or sewer system.

Combustion Products Produces carbon oxides (CO, CO₂), nitrogen oxides (NO_x),

aluminum oxides and ammonia.

Fire-Fighter Wear self-contained breathing apparatus and full fire-fighting

turn-out gear.

Section 6: Accidental Release Measures

Personal Protection Use personal protection recommended in Section 8.

Precautions for

Response

Avoid breathing fumes and vapors.

Environmental Precautions

Avoid releasing to the environment. Prevent spill from entering

drains and waterways. Do not flush to sewer.

Containment Methods Contain with inert and non-flammable absorbent (such as soil,

sand, vermiculite).

Cleaning Methods Collect liquid in a sealable container. Sprinkle inert absorbent

> compound onto spill, then sweep into the container. Wipe off residues with paper towels and place the used towels in the waste container. Wash spill area with soap and water to remove

the last traces of residue.

Disposal Methods Dispose spill waste according to Section 13.

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Section 7: Handling and Storage

Prevention Keep out of reach of children.

Obtain special instructions before use. Do not handle all safety

precautions have been read and understood.

Avoid breathing fumes and vapors.

Contaminated work clothing should not be allowed out of the

workplace.

Avoid release to the environment.

Handling Wear protective gloves and eye protection.

Take off contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling. Do not eat, drink or

smoke when using this product.

Collect spillage.

Storage Store locked up.

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
aluminum metal	ACGIH	1 mg/m ³	Not established
and insoluble	U.S.A. OSHA PEL	15 mg/m ³	Not established
compounds ^{a)}	Canada AB	10 mg/m ³	Not established
	Canada BC	1 mg/m ³	Not established
	Canada ON	1 mg/m ³	Not established
	Canada QC	10 mg/m ³	Not established

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Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
triethylenetetramine	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	U.S.A (WEEL)	1 ppm	Not established
	Canada AB	Not established	Not established
	Canada BC	Not established	Not established
	Canada ON	0.5 mg/m³ (Skin)	Not established
	Canada QC	Not established	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS² database and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Respirable airborne particles

Skin—can be absorbed through the skin.

Engineering Controls

Ventilation Keep airborne concentrations below the occupational exposure

limits (OEL).

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety

goggles.

RECOMMENDATION: Use safety glasses with lateral protection

(side shields).

Skin Protection For likely contacts, use of protective butyl rubber, neoprene, or

other chemically resistant gloves.

For incidental contacts, use nitrile or other chemically resistant

gloves.

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Respiratory Protection

For over-exposures up to 10 x OEL of mist, vapors, and spray, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Liquid	Lower Flammability Limit	Not available
Appearance	Light yellow	Upper Flammability Limit	Not available
Odor	Ammonia-like	Vapor Pressure @20 °C ^{a)}	<0.001 kPa [<0.01 mmHg]
Odor Threshold	Not available	Vapor Density	Not available
pH	Not available	Relative Density @25°C	1.27
Freezing/Melting Point	Not available	Solubility in Water	Slightly soluble
Initial Boiling Point	150 °C [302 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point a)	122 °C [252 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability	Non Flammable	Viscosity @25 °C	>20.5 mm ² /s

a) Literature value for triethylenetetramine



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Section 10: Stability and Reactivity

Reactivity Reacts exothermically with ketones, halogenated hydrocarbons,

cyanides, nitriles, and epoxides. May attack metals such as

aluminum, zinc, copper, and their alloys.

Chemical Stability Chemically stable at normal temperatures and pressures

Conditions to

Avoid

Ignition sources, open flames, and incompatible substances

Incompatibilities Strong oxidizing agents, strong acids, alkali

Polymerization Will not occur

Will not decompose under normal conditions. For thermal **Decomposition**

decomposition, see combustion products in Section 5.

Section 11: Toxicological Information

Summary of Effects and Symptoms by Routes of Exposure

Eyes May cause redness, severe irritation, pain, or burns.

Skin May cause redness, serious skin irritation and allergic contact

dermatitis. Triethylenetetramine can be absorbed through skin leading

to toxic effects.

When heated, hot triethylenetetramine vapors may also result in itching of the face with skin redness (erythema) and swelling (edema).

Inhalation May cause cough, sore throat, irritation of the respiratory track, or

burning sensation.

Ingestion May cause irritation, abdominal pain, nausea, vomiting, burning

sensation (see inhalation symptoms).

Chronic Prolonged and repeated exposure to uncured epoxy hardener may

lead to skin sensitization.

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Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
ATBN polymer	Not	Not	Not
	available	available	available
aluminum trihydrate	>2 000 mg/kg	Not	Not
	Rat	available	available
ammonium polyphosphate	300 mg/kg	Not	Not
	Rat	available	available
fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	>5 000 mg/kg ^{a)}	>5 000 mg/kg ^{a)}	Not available
fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	>5 000 mg/kg ^{a)}	>5 000 mg/kg ^{a)}	Not available
zinc borate	Not	>10 000 mg/kg	Not
	available	Rabbit ^{a)}	available
triethylenetetramine	2 500 mg/kg	805 mg/kg	Not
	Rat	Rabbit	available
2-piperazin-1-ylethylamine (AEP)	2 097 mg/kg	866 mg/kg	Not
	Rat	Rabbit	available

Note: Toxicity data from the RTECS² and ECHA were consulted. The data from supplier SDS were also consulted.

a) Supplier SDS

Other Toxicological Effects

Skin corrosion/irritation	Based on concentrations in the mixture Triethylenetetramine and 2-piperazin-1-ylethylamine causes skin irritation.
Serious eye damage/irritation	Triethylenetetramine and fatty acids, C18-unsatd., dimers, (CAS# 68410-23-1 and CAS# 68082-29-1) causes severe eye damage.
Respiratory and skin sensitization (allergic reactions)	The epoxy hardener components may cause skin sensitization according to animal studies.
Carcinogenicity (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.

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Mutagenicity

(risk of heritable genetic effects)

Based on available data, the classification criteria are

not met.

Reproductive Toxicity

(risk to sex functions)

Animal ingestion studies show that high doses of zinc borate cause reproductive and developmental effects.

Based on animal studies 2-piperazin-1-ylethylamine has been shown to be a developmental toxicant if

swallowed.

Teratogenicity

(risk of fetus malformation)

Based on available data, the classification criteria are

not met.

STOT-single exposure

Based on available data, the classification criteria are

not met.

STOT-repeated exposure

Based on available data, the classification criteria are

not met.

Aspiration hazard

Based on available data, the classification criteria are not met. There are no category 1 components, and the kinematic viscosity is >20.5 mm²/s at 40 °C.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (http://echa.europa.eu), and other reliable sources.

The fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines (CAS# 68410-23-1) and fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine (CAS# 68082-29-1) are classified as a chronic category 2 environmental toxicants (not readily biodegradable, LC50 range of 1-10 mg/L for fish; EC0 bacterial >10 and \leq 100 mg/L).

Zinc borate is a category 1 chronic marine pollutant with a LC50 96h 2.4 mg/L for oncorhhynchus mykiss (rainbow trout); 76 mg/L 48 h daphnia magna (water flea).

Literature values for the triethylenetetramine (CAS# 112-24-3) suggest an acute category 3 aquatic toxicity (LC50, IC50, and EC50 values of >100 mg/L for fish and between 10 and 100 mg/L for algae).

2-piperazin-1-ylethylamine is a category 3 chronic environmental hazard with a LC50 96h 2 190 mg/L for fathead minnows; 58 mg/L 48h daphnia magna (water flea), and >1 000 mg/L (EC50 for algae based on growth rate).

Based on available data, aluminum trihydrate, ammonium polyphosphate and dipentaerythritol pentaacrylate are not classified as environmental hazards according to GHS criteria.

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Acute Ecotoxicity

Category 2

Toxic to aquatic life

Avoid release to the environment.

Chronic Ecotoxicity

Category 2

Toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

Biodegradability

Not readily biodegradable

Bioaccumulation

Not available

Other Effects

Not available

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.



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Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations); **USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Sizes under 450 L

Part B of 9200FR-25ML, 9200FR-50ML kits

NOT REGULATED in TDG

per Special Provisions 99

Sizes 5 L and under

NOT REGULATED in 49 CFR

per exception 171.4 (c)(2)

FOR REFERENCE ONLY
UN number: UN3082

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fatty acids, C18-unsatd.,

dimers, zinc borate)

Class: 9

Packing Group: III Marine Pollutant: Yes

Special Provision 99 (2): These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.

Air

Refer to ICAO-IATA regulations.

Sizes 5 L and under

Part B of 9200FR-25ML, 9200FR-50ML kits

NOT REGULATED

Not Postricted as per Special Provisions

Not Restricted, as per Special Provisions A197

Special Provision A197: These substances when transported in single or combination packagings containing net quantity per single or inner packaging of less than 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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Sea

Refer to IMDG regulations. Sizes 5 L and under Part B of 9200FR-25ML, 9200FR-50ML kits NOT REGULATED per 2.10.2.7

2.10.2.7: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provision of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this Code relevant to any additional hazards continue to apply.

Note: Shipper must be appropriately <u>trained and certified</u> before involvement with the transport of dangerous goods.

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL)/Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL/NDSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

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USA

Other Classifications

HMIS® RATING

HEALTH:	*	3
FLAMMABILITY:		1
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product does not contain substances that are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, USA).

This product does not contain any listed substances in California.

Europe

RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.



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Section 16: Other Information

SDS Prepared by Regulatory Department **Date of Revision** 21 December 2020 **Supersedes** 20 March 2020

Reason for Changes: Update to section 11.

Reference

- 1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Abbreviations

ACGIH EC50 EL50 IARC NOELR NTP GHS	American Conference of Governmental Industrial Hygienists (USA) Half maximal effective concentration Half maximal effective loading International Agency for Research on Cancer No observable effect loading ratio National Toxicology Program Globally Harmonized System of Classification of Labeling of Chemicals
LC50 LCLo	Lethal Concentration 50% Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average

Volatile Organic Content

VOC

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

Email: support@mqchemicals.com

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Mailing Addresses Manufacturing & Support

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Head Office

9347-193rd Street

Surrey, British Columbia, Canada

V4N 4E7

Disclaimer

This safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.