



Revised Date: 09-09-2015

SAFETY DATA SHEET

HI-SOLIDS EQUIPMENT ENAMEL

Supersedes: JAN. 2002

1. Identification

Product identifier	Hi-Solids Equipment Enamel
Other means of identification	
SDS number	40
Synonyms	X-6960 Clear Base & Tints
Recommended use	Not available.
Recommended restrictions	Not available.
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer/Supplier	Farwest Paint Manufacturing Co. 4522 South 133rd Street, Tukwila, Washington 98168 (Farwest) (206) 244-8844
General Assistance	Not available.
E-Mail	Not available.
Contact Person	Not available.
Emergency Telephone	(Chemtrec) (800) 424-9300 24 Hour Emergency Assistance

2. Hazard(s) Identification

Physical hazards	Flammable liquid	Category 2
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1

Label elements



Signal word	Danger
Unknown Toxicity	72.1% of the mixture consists of ingredient(s) of unknown toxicity.
Hazard statement	Highly Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure (lungs). May be fatal if swallowed and enters airways.
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and



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Response

other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breath dust/fume/gas/mist/vapors/spray.

IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. In case of fire: Use foam, CO₂, dry chemical, or water fog for extinction. IF SKIN irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Storage

Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>
Xylene	1330-20-7	14.3
Toluene	108-88-3	<6.26
Solvent Naphtha (Petroleum) Light Aliphatic	64742-89-8	
Ethyl Benzene	100-41-4	
Hexane	123-86-4	
Titanium dioxide (TiO ₂)	13463-67-7	0.59
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	0.50



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4. First-aid measures

Inhalation	Remove victim to fresh air. If respiratory symptoms develop, seek medical attention at once.
Skin contact	Promptly wash with soap and water. Remove and wash any contaminated clothing before reuse.
Eye contact	Flush with large quantities of water for 15 minutes and seek medical attention.
Ingestion	If ingested do not induce vomiting; keep person warm and quiet and get medical attention. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.
Most important symptoms/effects, acute and delayed	Excessive exposure to vapors, spray mist may lead to headache, dizziness, nausea and loss of consciousness. Some reports have associated prolonged occupational over exposure to solvents with permanent brain and nervous system damage. Can cause irritation sensitization or defatting of the skin of upon prolonged contact. May be an eye irritant.
Indication of immediate medical attention and special treatment needed	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
General information	If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire-fighting measures

Suitable extinguishing media	Foam, CO ₂ , Dry Chemical, or Water Fog or any CLASS B EXTINGUISHING AGENT.
Unsuitable extinguishing media	Water may be unsuitable as an extinguishing medium, but helpful in keeping adjacent containers cool.
Specific hazards arising from the chemical	Vapors may form an explosive mixture in air and may be ignited by sparks, pilot lights etc. Closed containers may rupture when exposed to extreme heat.
Special protective equipment and precautions for firefighters	Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus. Evacuate area of unprotected personnel. Wear protective clothing.



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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as saw dust, vermiculate or sand and place material into closed container. If large spill, dike area to prevent this material from entering water system or sewers. Wear protective equipment during cleanup.

7. Handling and storage

Precautions for safe handling

Avoid prolonged or repeated inhalation of heated vapors or spray mist. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Wear suitable protective equipment. Refer to section 8 for "Exposure controls / personal protection."

Conditions for safe storage, including any incompatibilities

KEEP OUT OF THE REACH OF CHILDREN. Keep away from heat or open flame. This material may cause sensitization. Do not weld on full or empty containers. Keep containers closed when not in use, and properly labeled. Avoid contact with strong oxidants, acids, bases and epoxy hardeners under uncontrolled conditions.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Xylene	PEL (TWA)	100 ppm (435 mg/m ³)
Toluene	PEL (TWA)	200 ppm
	PEL (Ceiling)	300 ppm, 500 ppm (max peak)
Ethyl benzene	PEL (TWA)	100 ppm (435 mg/m ³)
Hexane	PEL (TWA)	150 ppm (710 mg/m ³)
Titanium dioxide	PEL (TWA)	15 mg/m ³



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Methanol	PEL (TWA)	200 ppm (260 mg/m ³)
2-Butoxyethanol	PEL (TWA)	50 ppm (240 mg/m ³) [skin]

US. OSHA Table Z-1 (29 CFR 1910.1000)

Components	Type	Value
Xylene	TWA	100 ppm (435 mg/m ³)
Ethyl benzene	TWA	100 ppm (435 mg/m ³)
Hexane	TWA	150 ppm (710 mg/m ³)
Titanium dioxide	TWA	15 mg/m ³
Methanol	TWA	200 ppm (260 mg/m ³)
2-Butoxyethanol	TWA	50 ppm (240 mg/m ³)

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Toluene	TWA	200 ppm
	Ceiling	300 ppm, 500 ppm (max peak)

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value
Quartz	TWA	(10 mg/m ³) / (%SiO ₂ +2)

US. ACGIH Threshold Limit Values

Components	Type	Value
Xylene	TLV (TWA)	100ppm
	TLV (ST)	150ppm
Ethyl benzene	TLV (TWA)	20 ppm
Hexane	TLV (TWA)	150 ppm
	TLV (TWA)	200 ppm
Titanium dioxide	TLV (TWA)	10 mg/m ³
Methanol	TLV (TWA)	200 ppm
	TLV (ST)	250 ppm
2-Butoxyethanol	TLV (TWA)	20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Xylene	REL (TWA)	100 ppm (435 mg/m ³)
	REL (ST)	150 ppm (655 mg/m ³)
Toluene	REL (TWA)	100 ppm (375 mg/m ³)
	REL (ST)	150 ppm (560 mg/m ³)
Ethyl benzene	REL (TWA)	100 ppm (435 mg/m ³)
	REL (ST)	125 ppm (545 mg/m ³)
Hexane	REL (TWA)	150 ppm (710 mg/m ³)
	REL (ST)	200 ppm (950 mg/m ³)
Methanol	REL (TWA)	200 ppm (260 mg/m ³)
	REL (ST)	250 ppm (325 mg/m ³)



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Quartz	REL (TWA)	0.05 mg/m ³
2-Butoxyethanol	REL (TWA)	5 ppm (24 mg/m ³) [skin]
Appropriate engineering controls	General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure level below the limits.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear face shield or chemical goggles.	
Skin protection		
Hand protection	Wear chemical resistant nitrile, neoprene or rubber gloves.	
Other	Wear protective clothing to prevent skin contact. Eye wash station and safety shower should be available.	
Respiratory protection	General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure level below the limits listed above. A canister-type respirator must be worn to prevent the inhalation of vapors or spray mist when the TLV are PEL is exceeded.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Keep work area clean and free from spills and leaks. Always wash hands thoroughly with soap and water before handling food, drink or smoking.	

9. Physical and chemical properties

Appearance	Amber or tinted liquid.
Physical state	Liquid.
Form	Liquid.
Color	Amber or Color of Tint.
Odor	Mild, sweet aromatic odor.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	281-284 °F
Flash point	50 °F TCC
Evaporation rate	Slower than ether.
Flammability (solid, liquid, gas)	Highly flammable liquid and vapor.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit - lower (%)	1.5
Explosive limit - upper (%)	7.0
Vapor pressure	38 mmHg at 20°C
Vapor density	Heavier than air.
Volatile by volume (%)	51%



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Volatile organic compounds (VOCs)	450 Grams/Liter (Less Water)
Density (Weight/Gallon)	8.35 lbs
Solubility(ies)	
Solubility (water)	Nil.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Hazardous polymerization reaction will not occur.
Conditions to avoid	Heat, sparks and open flame. If product contains aluminum, moisture in closed containers will generate hydrogen gas.
Incompatible materials	Strong oxidants, acids, bases and epoxy hardeners under uncontrolled conditions.
Hazardous decomposition Products	Incomplete combustion can yield carbon monoxide and toxic vapors.

11. Toxicological information

Information on likely routes of exposure

Ingestion	May be harmful if swallowed.
Inhalation	May cause headache, dizziness, nausea, and loss of consciousness.
Skin contact	May cause irritation, sensitization, or defatting of skin upon repeated contact.
Eye contact	Irritation of the eyes.
Symptoms related to the physical, chemical and toxicological characteristics	May cause irritation, sensitization, or defeating of skin upon prolonged or repeated contact. May be an eye irritant. Vapors or spray mist can result in headache, dizziness, nausea and loss of consciousness. Some reports associated with prolonged exposure results in permanent brain and nervous system damage.
Delayed and immediate effects and also chronic effects from short- and long-term exposure	Irritation, sensitization, or defeating of skin. Eye irritant. Headache, dizziness, nausea and loss of consciousness. Prolonged exposure results in permanent brain and nervous system damage.

Numerical measures of toxicity



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Components	Test	Species	Test Results
Xylene (CAS 1330-20-7)	Oral LD ₅₀	Rat	3523 mg/kg
	Dermal LD ₅₀	Rabbit	4300 mg/kg
	Inhalation LC ₅₀	Rat	6350 ppm, 4h
Toluene (CAS 108-88-3)	Oral LD ₅₀	Rat	636 mg/kg
	Dermal LD ₅₀	Rabbit	12124 mg/kg
	Inhalation LC ₅₀	Rat	49 mg/l, 4h
Ethyl benzene (CAS 100-41-4)	Oral LD ₅₀	Rat	3500 mg/kg
	Dermal LD ₅₀	Rabbit	17800 mg/kg
	Inhalation LC ₅₀	Rat	9.6 mg/l, 4h
Hexane (CAS 123-86-4)	Oral LD ₅₀	Rat	13100 mg/kg
	Dermal LD ₅₀	Rabbit	>5000 mg/kg
	Inhalation LC ₅₀	Rat	>21.0 mg/l, 4h
Quartz (CAS 14808-60-7)	Oral LD ₅₀	Rat	>2000 mg/kg
Polychloro copper phthalocyanine (CAS 1328-53-6)	Oral LD ₅₀	Rat	>2000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization**Respiratory sensitization**

No data available.

Skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7) 2B "Possibly Carcinogenic to Humans"

NTP Report on Carcinogens

Titanium dioxide (CAS 13463-67-7) Not listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Titanium dioxide (CAS 13463-67-7) Not listed

Reproductive toxicity

Suspected of damage fertility or the unborn child.

Specific target organ toxicity - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure (lungs).

Aspiration hazard

May be fatal if swallowed and enters airways.

12. Ecological information

Numerical measures of toxicity

Components	Test	Species	Test Results
Xylene (CAS 1330-20-7)	Fish LC ₅₀	Fathead minnow (<i>Pimephales promelas</i>)	13.4mg/l, 96h
	Crustacea	Water flea	> 3.4 mg/l, 48h



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Toluene (CAS 108-88-3)	EC ₅₀	(<i>Ceriodaphnia dubia</i>)	
	Algae EC ₅₀	Microalga	4.9mg/l, 72h
		(<i>Selenastrum capricornutum</i>)	
	Fish LC ₅₀	Rainbow trout	5.5 mg/l, 96h
		(<i>Oncorhynchus mykiss</i>)	
Ethyl benzene (CAS 100-41-4)	Crustacea	Water flea	6.56 mg/l, 48h
	EC ₅₀	(<i>Daphnia magna</i>)	
	Algae EC ₅₀	Microalga	12.5 mg/l, 72h
		(<i>Selenastrum capricornutum</i>)	
	Fish LC ₅₀	Rainbow trout	4.2 mg/l, 96h
Polychloro copper phthalocyanine (CAS 1328-53-6)		(<i>Oncorhynchus mykiss</i>)	
	Crustacea	Water flea	1.81 mg/l, 48h
	EC ₅₀	(<i>Daphnia magna</i>)	
	Algae EC ₅₀	Microalga	4.6mg/l, 72h
		(<i>Selenastrum capricornutum</i>)	
Polychloro copper phthalocyanine (CAS 1328-53-6)	Fish LC ₅₀	Rainbow trout	355.6 mg/l, 96h
		(<i>Oncorhynchus mykiss</i>)	
	Crustacea	Water flea	153.6 mg/l, 48h
EC ₅₀		(<i>Daphnia magna</i>)	
Persistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Mobility in soil	Not available.		
Other adverse effects	Not available.		

13. Disposal considerations

Disposal instructions

If discarded, this materials and containers should be treated as hazardous waste based on the characteristic of ignitability as defined under Federal RCRA Regulations(40 CFR 261). Disposal of this material or its containers requires compliance with applicable labeling, packaging and record keeping standards.

Hazardous waste code

US RCRA Hazardous Waste U List : Reference

Xylene (CAS 1330-20-7)

U239

Toluene (CAS 108-88-3)

U220

Waste from residues / unused products

Dispose in accordance with local, state, and federal agencies.
Ground handling equipment to prevent sparks.

Contaminated packaging

Do not reuse empty containers.

14. Transport information

DOT

UN number

UN 1263



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UN proper shipping name
Transport hazard class(es)

PAINT

Class

3

Subsidiary risk

-

Label(s)

3 - Flammable liquid



Packing group

II

Environmental hazards

Marine pollutant

Yes

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number

UN 1263

UN proper shipping name

Paint

Transport hazard class(es)

Class

3

Subsidiary risk

-

Label(s)

3 - Flammable liquid



Packing group

II

Environmental hazards

Yes

ERG Code

3L

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number

UN 1263

UN proper shipping name

PAINT

Transport hazard class(es)

Class

3

Subsidiary risk

-

Label(s)

3 - Flammable liquid





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Packing group	II
Environmental hazards	
Marine pollutant	Yes
EMS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Some components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None of the ingredients in this product is listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Xylene (CAS 1330-20-7)	Listed
Toluene (CAS 108-88-3)	Listed
Ethyl benzene (CAS 100-41-4)	Listed
Hexane (CAS 123-86-4)	Listed
Titanium dioxide (CAS 13463-67-7)	Listed
Methanol (CAS 67-56-1)	Listed
2-Butoxyethanol (CAS 111-76-2)	Listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Xylene (CAS 1330-20-7)	Listed
Toluene (CAS 108-88-3)	Listed
Ethylbenzene (CAS 100-41-4)	Listed
Hexane (CAS 123-86-4)	Listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard	- Yes
	Delayed Hazard	- Yes
	Fire Hazard	- Yes
	Pressure Hazard	- No
	Reactivity Hazard	- No

SARA 302/304 Extremely hazardous substance

None of the ingredients in this product is listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical Name	CAS number	% by wt.
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Xylene	1330-20-7	14.3
Toluene	108-88-3	3.75
Ethyl benzene	100-41-4	0.3

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Xylene (CAS 1330-20-7)
Toluene (CAS 108-88-3)
Ethyl benzene (CAS 100-41-4)
Methanol (CAS 67-56-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None of the ingredient in this product is listed.

Safe Drinking Water Act (SDWA)

Methanol (CAS 67-56-1)

US State regulations

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

Xylene (CAS 1330-20-7)
Toluene (CAS 108-88-3)
Ethylbenzene (CAS 100-41-4)
Hexane (CAS 123-86- 4)
Titanium dioxide (CAS 13463-67-7)
Methanol (CAS 67-56-1)
Quartz (CAS14808-60-7)
2-Butoxyethanol (CAS 111-76-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Xylene (CAS 1330-20-7)
Toluene (CAS 108-88-3)
Ethyl benzene (CAS 100-41-4)
Hexane (CAS 123-86- 4)
Titanium dioxide (CAS 13463-67-7)
Methanol (CAS 67-56-1)
Quartz (CAS14808-60-7)
2-Butoxyethanol (CAS 111-76-2)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Toluene (CAS 108-88-3)
Ethyl benzene (CAS 100-41-4)
Methanol (CAS 67-56-1)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non- Domestic Substances List (NDSL)	No



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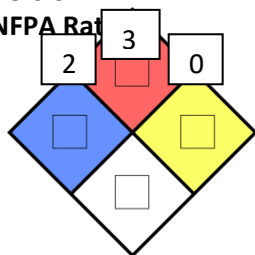
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Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control ACT (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date JAN. 2002
Revision date 09-09-2015
Version # 01
NFPA Rat 11



References

ACGIH
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
HSDB - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens

Disclaimer

The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations. All materials may present unknown hazards and should be used with caution.