

Safety Data Sheet

4 Minute Steel Epoxy - Part A (resin); Part B (hardener)

Section 1. Identification

Product Identifier 4 Minute Steel Epoxy Part A (resin)

49402 Synonyms Manufacturer Stock

Numbers

144356

Recommended use Refer to Technical Information Uses advised against Refer to Technical Information

Manufacturer Contact

Address Dynatex a division of Soudal

350 Ring Road

Elizabethtown, KY, 42701

USA

Phone **Emergency Phone** Fax

(270) 769-3385 (800) 424-9300 (270) 769-6418

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Section 2. Hazards Identification

Classification SENSITIZATION - SKIN - Category 1

SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2A

SKIN CORROSION/IRRITATION - Category 2

Signal Word Warning

Pictogram

Hazard Statements Causes serious eye irritation

Causes skin irritation

May cause an allergic skin reaction

Response If eye irritation persists: 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 on skin: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Read label before use.

Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

Prevention Avoid breathing dust/fume/gas/mist/ vapors/spray.

Contaminated work clothing must not be allowed out of the workplace.

Wash thoroughly after handling. Wear eye protection/face protection.

Wear protective gloves.

Storage N/A

Disposal Dispose of contents/containers in accordance with local regulations.

Ingredients of unknown

toxicity

0%

Hazards not Otherwise

Classified

Additional Information No information available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
25085-99-8	3 Oxirane,2,2',1 methyl ethylidene bis 4,1 B	25% - 50%
68477-30-5	5 Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	1% - 3%
1333-86-4	Carbon Black	0.1% - 0.3%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

First Aid Measures General advice

Get medical advice/attention if you feel unwell.

Eye contact

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.

Skin Contact

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical

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advice/attention.

Inhalation

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and Symptoms: No information available.

delayed

Indication of any immediate Note to physicians: Treat symptomatically.

medical attention and special treatment needed

Section 5. Fire Fighting Measures

Suitable Extinguishing

Media

Unsuitable Extinguishing

Media

Specific hazards arising

from the chemical

Special protective

equipment for fire-fighters

Dry chemical, CO2, water spray or alcohol-resistant foam.

Strong water jet

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases.

In the event of fire and/or explosion do not breathe fumes. May cause

sensitization by skin contact.

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off

from fire-fighting to enter drains or water courses.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid breathing vapors or mists. Use personal protective equipment as required.

Avoid contact with skin, eyes or clothing.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal.

Section 7. Handling and Storage

Precautions for safe handling

Advice on safe handling

Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Strong acids. Acids. Aluminum

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Oxirane,2,2',1 methyl ethylidene bis 4,1 B	N/A	N/A	N/A
	Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	N/A	N/A	N/A
	Carbon Black	TWA: 3 mg/m3 inhalable fraction	TWA: 3.5 mg/m3	N/A
Personal Protective Equipment	Goggles, Gloves			
Engineering Controls	Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory			haust

Individual protection measures, such as personal protective equipment

Eye/face protection

equipment.

Tight sealing safety goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear suitable protective clothing.

Hand Protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

Thermal Protection

No information available

Section 9. Physical and Chemical Properties

Physical State	Paste/Gel
Color	Grey
Odor	Slight
Odor Threshold	No information available
Solubility	No information available
Partition coefficient Water/n-octanol	No information available
VOC%	Nil
Viscosity	No information available
Specific Gravity	1.87
Density Ibs/Gal	15.58
Pounds per Cubic Foot	N/A
Flash Point	94C 201F
FP Method	N/A
рН	No information available
Melting Point	No information available

Boiling Point	No information available
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	No information available
Flammability	No information available
Decomposition Temperature	No information available
Auto-ignition Temperature	No information available
Vapor Pressure	No information available
Vapor Density	No information available

Note The above information is not intended for use in preparing product

specifications. Contact Soudal Accumetric before writing specifications.

Section 10. Stability and Reactivity

Reactivity No information available

Chemical stability Stable under normal conditions.

Possibility of Hazardous None under normal processing.

Reactions

Hazardous polymerization None under normal processing.

Conditions to avoid Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials Strong oxidizing agents. Strong acids. Acids. Aluminum.

Hazardous Decomposition Carbon monoxide. Carbon dioxide (CO2).

Products

Section 11. Toxicological Information

Information on likely routes Eye contact

of exposure Causes serious eye irritation

Skin Contact

Causes skin irritation

May cause an allergic skin reaction

Ingestion

Not applicable

Inhalation

Not applicable

Numerical measures of toxicity - Component

Carbon black (1333-86-4)

Information

Oral LD50: >15400 mg/kg (Rat) Dermal LD50: >3 g/kg (Rabbit)

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

Delayed and immediate effects as well as chronic effects from short and long-ter

Skin corrosion/irritation Causes skin irritation

Serious eye damage/eye irritation Causes serious eye irritation

Skin sensitization

May cause an allergic skin reaction

Respiratory sensitization

Not applicable

Germ cell mutagenicity

Not applicable

Carcinogenicity Not applicable

Reproductive Toxicity

Not applicable

Specific target organ toxicity (single exposure)

Not applicable

Specific target organ toxicity (repeated exposure)

Not applicable

Aspiration hazard Not applicable

Carcinogenicity

According to IARC, Volume 93, no significant exposure to primary particles of carbon black is thought to occur from use in paints since the pigment is bound to other materials.

ACGIH: A3 - Animal carcinogen

IARC: Group 2B - Possibility carcinogenic to humans

OSHA: X - Present

Section 12. Ecological Information

Ecotoxicity Environmental precautions

Prevent product from entering drains.

Marine pollutant

This material meets the definition of a marine pollutant

Persistance and

degradation

No information available.

Bioaccumulation No information available.

Mobility No information available.

Other adverse effects No information available

Section 13. Disposal

Waste treatment methods Disposal of wastes

Disposal should be in accordance with applicable regional, national and local

laws and regulations.

Contaminated packaging

Improper disposal or reuse of this container may be dangerous and illegal.

Empty containers must be scrapped or reconditioned.

Section 14. Transport Information

UN Number 3082

UN Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s Epoxy Resin

DOT Classification Hazard Class: 9

Packing Group III

Other hazard information Environmental hazard

Yes

Marine pollutant

This material meets the definition of a marine pollutant

Marine pollutant Epoxy resin

Special Provisions 8, 146, 173, 335, IB3, T4, TP1, TP29

Emergency Response Guide Number

1/1

Transport in bulk according No information available

to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory Information

TSCA Status All chemical substances in this material are included on or exempted from

listing on the TSCA Inventory of Chemical Substances.

DSL - Canadian Domestic

Substances List

All components are listed or exempt from listing

SARA 311/312 Hazard

Categories

Acute health hazard: Yes Chronic Health Hazard: Yes

Fire hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

California Prop 65 WARNING: This product can expose you to chemicals including Bisphenol A

(BPA), which is known to the State of California to cause birth defects and/or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Section 16. Other Information

Revision Date 9/11/2018

Disclaimer The data contained herein is based upon information that Soudal Accumetric

believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material

or the results to be obtained from the use thereof.



Safety Data Sheet

4 Minute Steel Epoxy Part B (hardener)

Section 1. Identification

Product Identifier 4 Minute Steel Epoxy Part B (hardener)

49402 Synonyms Manufacturer Stock

Numbers

144356

Recommended use Refer to Technical Information Uses advised against Refer to Technical Information

Manufacturer Contact

Address Dynatex a division of Soudal Accumetric

350 Ring Road

Elizabethtown, KY, 42701

USA

Phone **Emergency Phone** Fax

(800) 424-9300 (270) 769-3385 (270) 769-6418

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Section 2. Hazards Identification

Classification CARCINOGENICITY - Category 1A

SENSITIZATION - SKIN - Category 1B

SERIOUS EYE DAMAGE /EYE IRRITATION - Category 1

SKIN CORROSION/IRRITATION - Category 1B TOXIC TO REPRODUCTION - Category 2

Signal Word Danger

Pictogram



Hazard Statements

Causes serious eye damage Causes severe skin burns and eye damage May cause an allergic skin reaction

May cause cancer.

Suspected of damaging fertility or the unborn child.

Precautionary Statements

Response

If exposed or concerned: Get medical advice/attention. If exposed or concerned: 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 inhaled: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get

medical advice/attention.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Read label before use.

Wash contaminated clothing before reuse.

Prevention Avoid breathing dust/fume/gas/mist/ vapors/spray.

Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use.

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Storage Store locked up.

Disposal Dispose of contents/containers in accordance with local regulations.

Ingredients of unknown

toxicity

0%

Hazards not Otherwise

Classified

Additional Information No information available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
Proprietary	Epoxy Curing Agent	1% - 3%
84852-15-3	4-Nonylphenol, mixed isomers	1% - 3%
14808-60-7	Crystalline silica, quartz	0.1% - 0.3%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

First Aid Measures

General advice

IF exposed or concerned: Get medical advice/attention.

Eye contact

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/physician.

Skin Contact

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Most Important Symptoms and Effects, Both Acute and

Delayed

Advice to Physician

Treat symptomatically.

No information available.

Section 5. Fire Fighting Measures

Suitable Extinguishing

Media

Unsuitable Extinguishing

Media

Specific hazards arising

from the chemical

Special protective

equipment for fire-fighters

Dry chemical, CO2, water spray or alcohol-resistant foam.

Strong water jet

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases.

In the event of fire and/or explosion do not breathe fumes. May cause

sensitization by skin contact.

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off

from fire-fighting to enter drains or water courses.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Personal precautions

Avoid breathing vapors or mists. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. If the

product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be

contained.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal.

Section 7. Handling and Storage

Precautions for safe handling

Advice on safe handling

Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Acids. Alkali.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Epoxy Curing Agent	Not Established	Not Established	N/A
	4-Nonylphenol, mixed isomers	N/A	N/A	N/A
	Crystalline silica, quartz	0.1mg/m3	0.1 mg/m3	N/A

Personal Protective Equipment Goggles, Gloves

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

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Individual protection measures, such as personal protective equipment Eye/face protection

Tight sealing safety goggles. Face protection shield.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear suitable protective clothing.

Hand Protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal Protection

No information available

Section 9. Physical and Chemical Properties

Physical State	Paste/Gel
Color	Light yellow and slighty milky white
Odor	Slight
Odor Threshold	No information available
Solubility	No information available
Partition coefficient Water/n-octanol	No information available
VOC%	N/A
Viscosity	No information available
Specific Gravity	2.04
Density lbs/Gal	17.01

Pounds per Cubic Foot	N/A
Flash Point	94C 20F
FP Method	N/A
рН	No information available
Melting Point	No information available
Boiling Point	No information available
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	No information available
Flammability	No information available
Decomposition Temperature	No information available
Auto-ignition Temperature	No information available
Vapor Pressure	No information available
Vapor Density	No information available

Note

The above information is not intended for use in preparing product specifications. Contact Soudal Accumetric before writing specifications.

Section 10. Stability and Reactivity

Reactivity No information available

Chemical stability Stable under normal conditions. Hazardous polymerization None under normal processing.

Conditions to avoid Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials Strong oxidizing agents. Acids. Alkali.

Hazardous Decomposition Carbon monoxide. Carbon dioxide (CO2). Oxides of sulfur.

Products

Section 11. Toxicological Information

Information on likely routes Eye contact

of exposure

Causes serious eye damage

Skin Contact

Causes skin burns

May cause an allergic skin reaction

Ingestion

Not applicable

Inhalation

Not applicable

Delayed and immediate effects as well as chronic effects from short and long-ter

Carcinogen

Quartz (14808-60-7)

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen.

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans. NTP (National Toxicology Program)

Known - Known Carcinogen.

OSHA (Occupational Safety and Health Administration of the US Department of

Labor) X - Present.

Skin corrosion/irritation

Causes skin burns

Serious eye damage/eye irritation

Causes serious eye damage

Skin sensitization

May cause an allergic skin reaction

Respiratory sensitization

Not applicable

Germ cell mutagenicity

Not applicable

Carcinogenicity

May cause cancer

Reproductive Toxicity

Suspected of damaging fertility or the unborn child

Specific target organ toxicity (single exposure)

Not applicable

Specific target organ toxicity (repeated exposure)

Not applicable

Aspiration hazard Not applicable

Section 12. Ecological Information

Ecotoxicity Environmental precautions

Prevent product from entering drains.

Persistance and

degradation

No information available.

Bioaccumulation No information available.

Mobility No information available.

Other adverse effects No information available

Section 13. Disposal

Waste treatment methods Disposal of wastes

Disposal should be in accordance with applicable regional, national and local

laws and regulations.

Contaminated packaging Do not reuse container.

Section 14. Transport Information

UN Number 3267

UN Proper Shipping Name Corrosive liquid, basic, organic,n.o.s 2,4,6-Tri(dimethylaminomethyl)phenol

Phenol, 4-nonyl-, branched

DOT Classification Hazard Class 8

Packing Group I

Special Provisions B2, IB2, T11, TP2, TP27

Emergency Response Guide Number

153

Transport in bulk according No information available

to Annex II of MARPOL 73/78 and the IBC Code

Other information The supplier may apply one of the following exceptions: Combustible Liquid (49)

CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2, IATA 3.3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.

Section 15. Regulatory Information

International Inventories TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

All components are listed or exempt from listing.

DSL - Canadian Domestic Substances List

Not all components are listed or exempt from listing

US Federal Regulations A component in this material is subject to the following SNUR under TSCA

5(a)(2): 79 FR 59186

TSCA - Toxic Substances Control Act, Section 12(b) Export Notification

Phenol, 4-nonyl-, branched (84852-15-3) Section 5

SARA 313

Phenol, 4-nonyl-, branched (84852-15-3)

SARA 311/312 Hazard Categories

Acute health hazard: Yes Chronic Health Hazard: Yes

Fire hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

California Prop 65 WARNING: This product can expose you to chemicals including Quartz (silica),

which is known to the State of California to cause cancer. For more information,

go to www.P65Warnings.ca.gov

Section 16. Other Information

Revision Date 9/19/2018

Disclaimer

The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or

suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material

or the results to be obtained from the use thereof.