

(Material) Safety Data Sheet



Section 1 - Product and Company Identification

Material Name	▪ Asphalt Rolled Roofing
Product Code	▪ CT-10125-2
Product Description	▪ Self Adhering Rolled Asphalt Membranes.
Product Use	▪ Weatherproofing
Synonyms	▪ Flintlastic® MidPly; Flintlastic® SA Cap; Flintlastic® SA Cap CoolStar
Manufacturer	▪ CertainTeed Corporation P.O. Box 860 Valley Forge, PA 19482-0101 United States www.certainteed.com CertainTeed - EHS@saint-gobain.com
Telephone	
Technical	▪ (610) 341-7000 - 9 AM – 5 PM (Eastern Time – USA)
<u>Emergency</u>	▪ (800) 424-9300 - Chemtrec
<u>Emergency</u>	▪ (703) 527-3887 - Outside of the U.S. Chemtrec
Preparation Date	▪ 08/01/1994
Last Revision Date	▪ 03/10/2011

Key to abbreviations

† = HMIS is a registered trademark of the American Coatings Association

Section 2 - Hazards Identification

Emergency Overview

Prevention Avoid breathing dust, fume, gas, mist, vapours and/or spray.

Storage/Disposal Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Under normal conditions of use the products listed in this MSDS are not expected to pose a physical hazard or health risk to humans. These products do not contain any form of asbestos materials. The component exposure limits and other information in this document are provided for circumstances such as heating (above 250°F), burning, cutting, sanding and/or grinding when there is potential for exposure to these components. If heated, this product may cause temporary irritation to the upper respiratory system. Avoid inhalation as temporary irritation may occur. Mechanical irritation may occur. Wear appropriate personal protective equipment as described in Section 8.

Physical Form	▪ Solid
Color	▪ Black
Odor	▪ Mild petroleum odor.
OSHA	▪ None
WHMIS	▪ None

- GHS**
- None
- Route Of Entry**
- Inhalation, Skin, Eye
- Medical Conditions Aggravated by Exposure**
- Pre-existing lung conditions which may be aggravated if fumes/dusts are inhaled,

Potential Health Effects

Inhalation

- Acute (Immediate)**
- Chronic (Delayed)**

- Temporary irritation of nose and throat may occur.
- This product contains crystalline silica which is listed by IARC as a suspect carcinogen. Silicosis (pulmonary fibrosis or severe lung scarring) may occur if exposed to high levels or repeated encounters with dust. Exposure to airborne particles that exceed the limits listed may cause lung cancer. This product also contains petroleum asphalt. If heated, there is limited evidence that derivatives of asphalt fumes may cause carcinogenic effects in animals. There is inadequate evidence to support that asphalt fumes alone are carcinogenic to humans.

Skin

- Acute (Immediate)**
- Chronic (Delayed)**

- Mechanical irritation of the skin/skin abrasion may occur characterized by itching or redness.
- No data available

Eye

- Acute (Immediate)**
- Chronic (Delayed)**

- Mechanical irritation of the eye may occur characterized by itching or redness.
- No data available.

Ingestion

- Acute (Immediate)**
- Chronic (Delayed)**

- Ingestion of this product unlikely.
- No data available.

Carcinogenic Effects

- When used under normal conditions, this product is not considered a carcinogen. This product contains petroleum asphalt. Asphalt fumes arise from hot asphalt. Asphalt fumes (CAS # 8052-42-4): In 1985/87, IARC (International Agency for Research on Cancer) concluded the following: (a) Bitumens are not classifiable as to their carcinogenicity to humans (Group 3). (b) Extracts of steam - and air-refined bitumens are possibly carcinogenic to humans (Group 2B). IARC found that evidence for carcinogenicity from animal studies was: inadequate for undiluted air -refined bitumens; limited for steam-refined and cracking residue bitumens; sufficient for extracts of steam-refined and air-refined bitumen. IARC found that human evidence for carcinogenicity of asphalt fumes was inadequate. Studies of roofers indicated an excess of cancers; however, IARC concluded that, since roofers may be exposed also to coal-tar pitches and other materials, "the excess cancer risk cannot be attributed specifically to bitumens." In 1994, a published review of 20 epidemiology studies of asphalt workers and roofers agreed with IARC, that current human evidence is inadequate for the carcinogenicity of asphalt fumes in humans. Trace amounts of polynuclear aromatic hydrocarbons (PAHs) may be present in some asphalts and can be released upon excessive heating, which results in thermal cracking of the asphalt compounds. Some of these PAHs have been identified as having the potential to induce carcinogenic and reproductive health effects. This product contains crystalline silica. IARC Monographs on Evaluation of Carcinogenic Risk of Chemicals to Humans (Monograph 68, 1997) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to humans, IARC (Group I). Crystalline Silica is classified as a Known Carcinogen according to the NTP.

Carcinogenic Effects			
	CAS	IARC	NTP
Quartz (SiO ₂)	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen
Asphalt	8052-42-4	Group 2B-Possible Carcinogen	Not established
		Group 3-Not Classifiable	

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

Hazardous Components						
Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Asphalt	8052-42-4	40% TO 80%	NA1999, 232-490-9	Ingestion/Oral-Rat LD50: >5000 mg/kg Inhalation-Rat LC50: >94.4 mg/m ³	NDA	NDA
Quartz (SiO ₂)	14808-60-7	0% TO 40%	238-878-4	NDA	NDA	NDA
Non-Hazardous Components						
Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Calcium carbonate	1317-65-3	< 20%	215-279-6	NDA	NDA	NDA
PET (Polyethylene terephthalate)	NDA	< 10%	NDA	NDA	NDA	NDA
SBS Polymer	NDA	< 10%	NDA	NDA	NDA	NDA
Polyolefin	NDA	< 5%	NDA	NDA	NDA	NDA

Under United States Regulations (29 CFR 1910.1200(c) - Hazard Communication Standard), the product(s) listed above are exempt as article(s) under stated normal conditions of use. Under Canadian regulations (Workplace Hazardous Materials Information System (WHMIS) - Hazardous Products Act (HPA), Section 11(1)), these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use. Under United Nations Globally Harmonized System for the Classification and Labeling of Hazardous Chemicals (GHS) this product is exempt from regulation as a manufactured article.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

Inhalation	<ul style="list-style-type: none">Remove to fresh air, apply artificial respiration and/or oxygen if necessary and get medical attention.
Skin	<ul style="list-style-type: none">Remove contaminated clothing and wash exposed skin with soap and water. If irritation develops or persists, seek medical attention.
Eye	<ul style="list-style-type: none">If foreign matter enters eyes, immediately flush with large amounts of water for at least 15 minutes or until irritation subsides. If irritation develops, or persists, seek medical attention.
Ingestion	<ul style="list-style-type: none">Consult a physician if unusual reaction is noted. Product is not intended nor is it likely to be ingested or eaten.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

Extinguishing Media	<ul style="list-style-type: none">Use water, foam, CO₂ or dry chemical extinguishers to contain fire.
Unsuitable Extinguishing Media	<ul style="list-style-type: none">No data available.
Firefighting Procedures	<ul style="list-style-type: none">Fire fighters should avoid inhaling any combustion products.
Unusual Fire and Explosion Hazards	<ul style="list-style-type: none">Burning of this product will produce thick black smoke.
Hazardous Combustion Products	<ul style="list-style-type: none">If burned, the materials could release toxic fumes and smoke. Incomplete thermal oxidation can produce hydrogen cyanide, carbon monoxide, carbon dioxide, ammonia, formaldehyde and other low molecular weight hydrocarbons and oxides or sulfur, nitrogen, calcium and magnesium.

Protection of Firefighters

- Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing to avoid smoke inhalation and lack of oxygen.

Section 6 - Accidental Release Measures

Personal Precautions

- Not applicable.

Emergency Procedures

- Not applicable.

Environmental Precautions

- No data available.

Containment/Clean-up Measures

- Pick up large pieces. Vacuum dust. If sweeping is necessary, use a dust suppressant such as water. These procedures will help to minimize potential exposures. Scoop up material and put into a suitable container for disposal as a non-hazardous waste.

Section 7 - Handling and Storage

Handling

- Do not breathe dusts or fumes generated from cutting or heating this material. Use this product with adequate ventilation. Always wash work clothes separately from other clothing. Wash thoroughly after handling. Use personal protective equipment as described in Section 8.

Storage

- Store indoors in a cool, dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition.

Special Packaging Materials

- No data available.

Incompatible Materials or Ignition Sources

- This product will react with strong oxidizing agents, reducing agents, strong acids and alkalis.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms



Respiratory

- Respiratory protection is not normally required. Use a NIOSH approved/certified respiratory when the exposure limits are exceeded. Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

Eye/Face

- Safety glasses with side shields should be worn at a minimum.

Hands

- Leather or cotton gloves may be worn to prevent skin contact and irritation.

Skin/Body

- Normal work clothing (long sleeved shirts and long pants) is recommended.

General Industrial Hygiene Considerations

- Use good industrial hygiene practices in handling this material. Availability of eye wash fountains are recommended.

Engineering Measures/Controls

- No special ventilation systems are required under normal conditions of use.

Exposure Limits/Guidelines						
	Result	ACGIH	Canada British Columbia	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories
Quartz (SiO ₂) (14808-60-7)	TWAs	0.025 mg/m ³ TWA (respirable fraction)	0.025 mg/m ³ TWA (respirable)	0.025 mg/m ³ TWA (respirable fraction)	0.1 mg/m ³ TWA (respirable fraction)	0.1 mg/m ³ TWA (respirable mass); 0.3 mg/m ³ TWA (total mass)
Calcium carbonate (1317-65-3)	STELs	Not established	20 mg/m ³ STEL	Not established	Not established	Not established
	TWAs	Not established	10 mg/m ³ TWA (total dust); 3 mg/m ³ TWA (respirable fraction)	Not established	10 mg/m ³ TWA (particulate matter containing no asbestos and < 1% crystalline silica)	5 mg/m ³ TWA (respirable mass); 10 mg/m ³ TWA (total mass)
Asphalt (8052-42-4)	TWAs	0.5 mg/m ³ TWA (as benzene soluble aerosol, fume, inhalable fraction)	0.5 mg/m ³ TWA (as benzene-soluble aerosol, inhalable fume)	0.5 mg/m ³ TWA (as benzene soluble aerosol, fume, inhalable fraction)	5 mg/m ³ TWA (petroleum fumes)	5 mg/m ³ TWA
	STELs	Not established	Not established	Not established	Not established	10 mg/m ³ STEL

Exposure Limits/Guidelines (Con't.)						
	Result	Canada Nova Scotia	Canada Nunavut	Canada Ontario	Canada Quebec	Canada Yukon
Quartz (SiO ₂) (14808-60-7)	TWAs	0.025 mg/m ³ TWA (respirable fraction)	0.1 mg/m ³ TWA (respirable mass); 0.3 mg/m ³ TWA (total mass)	0.10 mg/m ³ TWAEV (designated substance regulation)	0.1 mg/m ³ TWAEV (respirable dust)	300 particles/mL TWA
Calcium carbonate (1317-65-3)	TWAs	Not established	5 mg/m ³ TWA (respirable mass); 10 mg/m ³ TWA (total mass)	Not established	10 mg/m ³ TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)	30 mppcf TWA; 10 mg/m ³ TWA
	STELs	Not established	Not established	Not established	Not established	20 mg/m ³ STEL
Asphalt (8052-42-4)	TWAs	0.5 mg/m ³ TWA (as benzene soluble aerosol, fume, inhalable fraction)	5 mg/m ³ TWA	0.5 mg/m ³ TWAEV (fume, inhalable, as benzene-soluble aerosol)	5 mg/m ³ TWAEV (fume)	5 mg/m ³ TWA (fume)
	STELs	Not established	10 mg/m ³ STEL	Not established	Not established	10 mg/m ³ STEL (fume)

Exposure Limits/Guidelines (Con't.)				
	Result	NIOSH	OSHA	United States - California
Quartz (SiO ₂) (14808-60-7)	TWAs	0.05 mg/m ³ TWA (respirable dust)	Not established	0.3 mg/m ³ PEL (total dust); 0.1 mg/m ³ PEL (respirable dust)
Calcium carbonate (1317-65-3)	TWAs	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	Not established
Asphalt (8052-42-4)	TWAs	Not established	Not established	5 mg/m ³ PEL (fume)
	Ceilings	5 mg/m ³ Ceiling (fume, 15 min)	Not established	Not established

Exposure Limits Supplemental OSHA

• Quartz (SiO₂) (14808-60-7): **Mineral Dusts:** ((30)/(%SiO₂ + 2) mg/m³ TWA, total dust; (250)/(%SiO₂ + 5) mppcf TWA, respirable fraction; (10)/(%SiO₂ + 2) mg/m³ TWA, respirable fraction)

Key to abbreviations

STEL = Short Term Exposure Limits are based on 15-minute exposures.

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

Physical Form

- Solid

Appearance/Description

- Black asphalt roofing rolls with mild petroleum odor.

Color : Black		Odor : Mild petroleum odor.	
Taste : No data available.		Odor Threshold : NDA	
Boiling Point:	NDA	Vapor Pressure:	NDA
Melting Point:	NDA	Vapor Density:	NDA
Specific Gravity:	NDA	Evaporation Rate:	NDA
Density:	NDA	VOC (Wt.):	NDA
Bulk Density:	NDA	VOC (Vol.):	NDA
pH:	NDA	Volatiles (Wt.):	NDA
Water Solubility:	Insoluble	Volatiles (Vol.):	NDA
Solvent Solubility:	NDA	Flash Point:	NDA
Viscosity:	NDA	Flash Point Test Type:	NDA
Half-Life:	NDA	UEL:	NDA
Octanol/Water Partition coefficient:	NDA	LEL:	NDA
Coefficient of water/oil distribution:	NDA	Autoignition:	NDA
Bioaccumulation Factor:	NDA	Bioconcentration Factor:	NDA
Biochemical Oxygen Demand BOD/BOD5:	NDA	Chemical Oxygen Demand:	NDA
Persistence:	NDA	Degradation:	NDA

Section 10 - Stability and Reactivity

Stability

- Stable under normal conditions of use.

Hazardous Polymerization

- Hazardous polymerization will not occur.

Conditions to Avoid

- Keep away from heat, ignition sources and incompatible materials.

Incompatible Materials

- This product will react with strong oxidizing agents, reducing agents, strong acids and alkalis.

Hazardous Decomposition Products

- Upon decomposition this product may emit hydrogen sulfide, formaldehyde, hydrogen cyanide, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons and oxides of sulfur, nitrogen, calcium and magnesium.

Section 11 - Toxicological Information

Temporary irritation may be observed in the upper respiratory system, eyes, and skin. Inhalation of dusts/fumes from this product may cause scratchy throat, congestion, and slight coughing.

Component Name	Concentration	CAS	Data
Calcium carbonate	< 20%	1317-65-3	Acute Toxicity: ihl-rat TCLo:250 mg/m3/2H/24W-l

Asphalt	40% TO 80%	8052-42-4	Acute Toxicity: orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3; ihl-hmn TDLo:10 mg/m3/5.5Y-I
Quartz (SiO2)	0% TO 40%	14808-60-7	Acute Toxicity: ihl-hmn LCLo:300 ug/m3/10Y-I; ihl-rat TCLo:6.2 mg/m3/6H/6W-I; ihl-rat TCLo:108 mg/m3/6H/3D-I; ihl-rat TCLo:200 mg/kg; Tumorigen/Carcinogen: ihl-rat TCLo:50 mg/m3/6H/71W-I

This product contains petroleum asphalt. If heated, there is limited evidence that derivatives of asphalt fumes may cause carcinogenic effects in animals. There is inadequate evidence to support that asphalt fumes alone are carcinogenic to humans. This product contains crystalline silica. Crystalline silica is considered a carcinogen by IARC as well as NTP.

Section 12 - Ecological Information

Ecological Fate	▪ No information available for the product.
Persistence/Degradability	▪ No information available for the product.
Bioaccumulation Potential	▪ No information available for the product.
Mobility in Soil	▪ No information available for the product.

This product has not been tested. Based on information related to all raw materials in the finished product it is not expected to harm ecosystems through its applied use.

Section 13 - Disposal Considerations

Product	▪ This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local public health department, or the local office of the EPA. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
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Section 14 - Transportation Information

DOT - United States - Department of Transportation

Shipping Name: Not Regulated

TDG - Canada - Transport of Dangerous Goods

Shipping Name: Not Regulated

Section 15 - Regulatory Information

SARA Hazard Classifications ▪ None

State Right To Know					
Component	CAS	MA	MN	NJ	PA
Calcium carbonate	1317-65-3	Yes	Yes	Yes	Yes
PET (Polyethylene terephthalate)	NDA	No	No	No	No
SBS Polymer	NDA	No	No	No	No
Polyolefin	NDA	No	No	No	No
Asphalt	8052-42-4	Yes	Yes	Yes	Yes
Quartz (SiO2)	14808-60-7	Yes	Yes	Yes	Yes

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Calcium carbonate	1317-65-3	No	Yes	Yes
PET (Polyethylene terephthalate)	NDA	No	No	No
SBS Polymer	NDA	No	No	No
Polyolefin	NDA	No	No	No
Asphalt	8052-42-4	Yes	No	Yes
Quartz (SiO ₂)	14808-60-7	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% D2A
- Quartz (SiO₂) 14808-60-7 0% TO 40% D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS website.)

Canada - WHMIS - Ingredient Disclosure List

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO₂) 14808-60-7 0% TO 40% 1 %

United States

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO₂) 14808-60-7 0% TO 40% Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO₂) 14808-60-7 0% TO 40% Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO₂) 14808-60-7 0% TO 40% Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO₂) 14808-60-7 0% TO 40% Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO₂) 14808-60-7 0% TO 40% Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO2) 14808-60-7 0% TO 40% Not Listed

U.S. - CWA (Clean Water Act) - Hazardous Substances

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO2) 14808-60-7 0% TO 40% Not Listed

U.S. - CWA (Clean Water Act) - Priority Pollutants

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO2) 14808-60-7 0% TO 40% Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO2) 14808-60-7 0% TO 40% Not Listed

U.S. - TSCA (Toxic Substances Control Act) - Section 8(a) - Inventory Update Rule - Partially Exempt Substances

- Asphalt 8052-42-4 40% TO 80% Partially exempt chemical substance termed Petroleum Process Stream
- Calcium carbonate 1317-65-3 < 20% Partially exempt chemical substance under 40 CFR 710.46(b)(2)
- Quartz (SiO2) 14808-60-7 0% TO 40% Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO2) 14808-60-7 0% TO 40% carcinogen, initial date 10/1/88 (airborne particles of respirable size)

United States - New Jersey**Environment****U.S. - New Jersey - Special Health Hazards Substances List**

- Asphalt 8052-42-4 40% TO 80% flammable - third degree
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO2) 14808-60-7 0% TO 40% carcinogen

United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

- Asphalt 8052-42-4 40% TO 80% Not Listed
- Calcium carbonate 1317-65-3 < 20% Not Listed
- Quartz (SiO2) 14808-60-7 0% TO 40% Not Listed

United States - Rhode Island**Labor****U.S. - Rhode Island - Hazardous Substance List**

- Asphalt 8052-42-4 40% TO 80% Toxic; Flammable
- Calcium carbonate 1317-65-3 < 20% Toxic
- Quartz (SiO2) 14808-60-7 0% TO 40% Toxic (dust and fiber)

Additional Regulatory Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Preparation Date

▪ 08/01/1994

Last Revision Date

▪ 03/10/2011

Disclaimer/Statement of Liability

- Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

Key to abbreviations

NDA = No Data Available