

THERMOGUARD
FIRE & PROTECTIVE PAINTS
SAFETY DATA SHEET

TH/WB101 - FLAME RETARDANT ANTI-GRAFFITI COATING - CLEAR BASE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name TH/WB101 - FLAME RETARDANT ANTI-GRAFFITI COATING - CLEAR BASE
Product No. TH/WB101/T - BASE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses BASE FOR TWO COMPONENT ANTI-GRAFFITI COATING For use as an an anti graffiti coating over Thermoguard Wallcoat or Thermoguard SFR Dualcoat.
Uses advised against NOT SUITABLE FOR FOR USE IN HOMEWORKER (DIY) APPLICATIONS

1.3. Details of the supplier of the safety data sheet

Supplier THERMOGUARD UK LTD
Kirkby Street
Hull
HU2 0BE
+44(0)1142 768008
+44(0)1624 825115
sales@thermoguard.co.uk
Contact Person Sales Department - 08.00 - 17.00 hrs Mon - Fri. as above

1.4. Emergency telephone number

+44 (0) 1142 768008 Thermoguard UK Ltd (08.00 - 17.00 hrs Mon - Fri)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Liq. 3 - H226
Human health Skin Sens. 1 - H317
Environment Aquatic Chronic 3 - H412

Classification (1999/45/EEC)

R43. R10, R52/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

See section 11 for additional information on health hazards. The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

2.2. Label elements

Contains WATER THINNABLE POLYACRYLATE CONTAINING HYDROXYL GROUPS
Label In Accordance With (EC) No. 1272/2008



Signal Word

Warning

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Hazard Statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P262	Do not get in eyes, on skin, or on clothing.
P235	Keep cool.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P501C	Dispose of contents/container in accordance with national regulations.

Supplementary Precautionary Statements

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing vapour/spray.
P321	Specific treatment (see medical advice on this label).
P370+378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P403+235	Store in a well-ventilated place. Keep cool.

2.3. Other hazards**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

WATER THINNABLE POLYACRYLATE CONTAINING HYDROXYL GROUPS		30-60%
CAS-No.:	EC No.:	
Classification (EC 1272/2008) Skin Sens. 1 - H317	Classification (67/548/EEC) R43.	
SOLVENT NAPHTHA, LIGHT AROMATIC(content of benzene <0.1%)		1-5%
CAS-No.: 64742-95-6	EC No.: 265-199-0	Registration Number: 01-2119455851-35
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Xi;R37. N;R51/53. R10,R66,R67.	

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2-BUTOXYETHANOL		1-5%
CAS-No.: 111-76-2		EC No.: 203-905-0
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		Classification (67/548/EEC) Xn;R20/21/22 Xi;R36/38
2-DIMETHYLAMINOETHANOL		1-5%
CAS-No.: 108-01-0		EC No.: 203-542-8
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Corr. 1B - H314 STOT SE 3 - H335		Classification (67/548/EEC) R10 C;R34 Xn;R20/21/22

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

General information

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious.

Inhalation

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. Place unconscious person on the side in the recovery position and ensure breathing can take place.

Ingestion

DO NOT induce vomiting. Get medical attention immediately. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General information

If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

4.3. Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

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Unusual Fire & Explosion Hazards

FLAMMABLE. Solvent vapours may form explosive mixtures with air.

Specific hazards

When heated and in case of fire, harmful vapours/gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Be aware of danger for fire to re-start. Cool containers exposed to flames with water until well after the fire is out. Do not allow runoff to sewer, waterway or ground.

Protective equipment for fire-fighters

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Do not smoke, use open fire or other sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 5°C and 25°C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store separated from: Oxidising material. Alkalis. Acids.

Storage Class

Flammable liquid storage. The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR. Up to 250 litres of liquids with a flashpoint above 32C but below 55C may be kept in a workroom provided they are kept in closed containers in a marked, fire-resisting cupboard or bin. Larger quantities must be kept in a separate, marked storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
2-BUTOXYETHANOL	WEL	25 ppm	123 mg/m3	50 ppm	246 mg/m3	Sk
2-DIMETHYLAMINOETHANOL	WEL	2 ppm	7.4 mg/m3	6 ppm	22 mg/m3	
SOLVENT NAPHTHA, LIGHT AROMATIC(content of benzene <0.1%)	SUP		600 mg/m3			

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

SOLVENT NAPHTHA, LIGHT AROMATIC(content of benzene <0.1%) (CAS: 64742-95-6)

DNEL					
Industry	Dermal	Long Term	Systemic Effects	25 mg/kg/day	
Industry	Inhalation.	Long Term	Systemic Effects	150 mg/m3	
Consumer	Dermal	Long Term	Systemic Effects	11 mg/kg/day	
Consumer	Inhalation.	Long Term	Systemic Effects	32 mg/m3	
Consumer	Oral	Long Term	Systemic Effects	11 mg/kg/day	

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance	Creamy liquid.
Colour	Milky.
Odour	Slight odour.
Solubility	Miscible with water
Initial boiling point and boiling range (°C)	approx. 100C
Relative density	approx. 1.08 g/ml @ 20C
Vapour density (air=1)	heavier than air
pH-Value, Conc. Solution	Alkaline
Viscosity	approx. 800 DIN 53019/1 mPas 23C
Flash point (°C)	45C CC (Closed cup).
Flammability Limit - Lower(%)	Solvent naphtha 1.0% by vol., 2-butoxyethanol 1.1% by vol.
Flammability Limit - Upper(%)	Solvent naphtha 7.5% by vol., 2-butoxyethanol 10.6% by vol.

9.2. Other information

Volatility Description	Volatile
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Volatile By Vol. (%) 55% by weight

Volatile Organic Compound (VOC) 83 g/litre

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.

10.5. Incompatible materials

Materials To Avoid

Strong alkalis. Strong acids. Strong oxidising substances.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxicological information

The material shows a sensitizing effect in conjunction with some complex hydrocarbons such as the Solvent Naphthas through skin absorption, and is considered to be an inherent property of the mixture.

Inhalation

Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact.

Eye contact

May cause temporary eye irritation.

Health Warnings

May cause sensitisation by skin contact.

Route of entry

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

Medical Considerations

Skin disorders and allergies. Avoid vomiting and normal rinse of stomach because of risk of aspiration.

Toxicological information on ingredients.

TH/WB101 - FLAME RETARDANT ANTI-GRAFFITI COATING - CLEAR BASE
2-BUTOXYETHANOL (CAS: 111-76-2)

Acute toxicity:

Acute Toxicity (Oral LD50)

1480 mg/kg Rat

Acute Toxicity (Dermal LD50)

435 mg/kg Rabbit

Skin Corrosion/Irritation:

Irritating.

Serious eye damage/irritation:

Moderately Irritating.

Aspiration hazard:

Skin contact

May be absorbed through the skin.

WATER THINNABLE POLYACRYLATE CONTAINING HYDROXYL GROUPS

Toxicological information

Salmonella/microsome test (Ames test). No indication of mutagenic effects.

Respiratory or skin sensitisation:

Skin sensitisation

Local Lymph Node Assay (LLNA) Rat

Epidemiological studies have shown evidence of skin sensitisation. The material shows a sensitizing effect in conjunction with some complex hydrocarbons such as the Solvent Naphthas through skin absorption, and is considered to be an inherent property of the mixture.

Germ cell mutagenicity:

Genotoxicity - In Vitro

Ames Test

Negative.

This substance has no evidence of mutagenic properties.

SOLVENT NAPHTHA, LIGHT AROMATIC(content of benzene <0.1%) (CAS: 64742-95-6)

Acute toxicity:

Acute Toxicity (Oral LD50)

3592 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 3160 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

> 6.193 mg/l (vapours) Rat 4 hours

Skin Corrosion/Irritation:

Slightly irritating.

Aspiration hazard:

Inhalation

Irritating to respiratory system. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

Ingestion

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Repeated exposure may cause skin dryness or cracking.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

TH/WB101 - FLAME RETARDANT ANTI-GRAFFITI COATING - CLEAR BASEEcological information on ingredients.**SOLVENT NAPHTHA, LIGHT AROMATIC(content of benzene <0.1%) (CAS: 64742-95-6)**

Ecotoxicity

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. ToxicityEcological information on ingredients.**2-BUTOXYETHANOL (CAS: 111-76-2)**

LC50 96 hours ~ 1490 mg/l *Lepomis macrochirus* (Bluegill)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours ~ 1815 mg/l *Daphnia magna*

Acute Toxicity - Aquatic Plants

EC50 72 hours > 500 mg/l *Scenedesmus subspicatus*

SOLVENT NAPHTHA, LIGHT AROMATIC(content of benzene <0.1%) (CAS: 64742-95-6)

Acute Toxicity - Fish

LC50 96 hours ~ 9.22 mg/l *Onchorhynchus mykiss* (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours ~ 6.14 mg/l *Daphnia magna*

EC50 96 hours ~ 19 mg/l Freshwater algae

Acute Toxicity - Microorganisms

EC50 1 - 10 mg/l

12.2. Persistence and degradability

Degradability

The product is slowly degradable.

Ecological information on ingredients.**2-BUTOXYETHANOL (CAS: 111-76-2)**

Degradability

The product is expected to be biodegradable.

Biodegradation

Degradation (90%)

Biological Oxygen Demand

~ 0.756 g O₂/g substance

Chemical Oxygen Demand

~ 2.379 g O₂/g substance

SOLVENT NAPHTHA, LIGHT AROMATIC(content of benzene <0.1%) (CAS: 64742-95-6)

Degradability

The product is easily biodegradable.

12.3. Bioaccumulative potential**12.4. Mobility in soil**

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment**12.6. Other adverse effects**

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Do not allow to enter drains, sewers or watercourses.

TH/WB101 - FLAME RETARDANT ANTI-GRAFFITI COATING - CLEAR BASE**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

Waste Class

When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing dried residues of the supplied coating, are categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

SECTION 14: TRANSPORT INFORMATION

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG.

14.1. UN number

UN No. (ADR/RID/ADN)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263

14.2. UN proper shipping name**14.3. Transport hazard class(es)**

ADR/RID/ADN Class	1263
ADR/RID/ADN Class	Class 3: Flammable liquids.
IMDG Class	3
Transport Labels	

**14.4. Packing group**

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards**14.6. Special precautions for user**

EMS	F-E, S-E
Tunnel Restriction Code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Uk Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

TH/WB101 - FLAME RETARDANT ANTI-GRAFFITI COATING - CLEAR BASE**Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION**General information**

Only trained personnel should use this material.

Revision Comments

Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 453/2010 Update for CLP labelling.

Issued By Technical Dept. (P.E.)

Revision Date 27/05/2015

Revision 2

Supersedes date 14/01/2013

SDS No. 11610

Safety Data Sheet Status Approved.

Date Date printed _____

Signature Initials _____

Risk Phrases In Full

R34	Causes burns.
R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R43	May cause sensitisation by skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

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Hazard Statements In Full

H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H412	Harmful to aquatic life with long lasting effects.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.
H331	Toxic if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.