PREVENTOL BIT 20 D



Version Revision Date: SDS Number: Date of last issue: -

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SECTION 1. IDENTIFICATION

Product name : PREVENTOL BIT 20 D

Product code : 00000000057739714

EPA registration number : 39967-152

Manufacturer or supplier's details

Company : LANXESS Corporation

Product Safety & Regulatory Affairs

111 RIDC Park West Drive

Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS

(412) 809-1000

Emergency telephone number : CHEMTREC (800) 424-9300 or

(703) 527-3887 (Outside U.S.A) and mention CCN12916.

Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Biocide for industrial application

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity (Inhalation)

: Category 4

Skin irritation

Category 2

Eye irritation

Category 2A

Skin sensitisation

Category 1

GHS label elements

Hazard pictograms

Signal word : Warning

Hazard statements : Causes skin irritation.

May cause an allergic skin reaction.

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Causes serious eye irritation.

Harmful if inhaled.

Precautionary statements

Prevention:

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the

workplace.

Wear protective gloves/ eye protection/ face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel un-

well.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,2-benzisothiazolin-3-one	2634-33-5	>= 10 - < 20

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

If inhaled : Get medical attention immediately.

Remove victim to fresh air and keep at rest in a position com-

fortable for breathing.

If unconscious, place in recovery position and get medical

attention immediately. Maintain open airway.

Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire,

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symptoms may be delayed.

The exposed person may need to be kept under medical sur-

veillance for 48 hours.

If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical respiration, or oxygen by a trained

professional, using a pocket type respirator.

In case of skin contact

In case of contact, immediately flush skin with plenty of water

for at least 30 minutes.

Get medical attention immediately.

Remove contaminated clothing and shoes.

Take off contaminated clothing and shoes immediately. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

In the event of any complaints or symptoms, avoid further

exposure.

Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact

Get medical attention immediately.

Immediately flush eyes with plenty of water, occasionally lifting

the upper and lower eyelids.

Remove contact lenses, if present and easy to do. Continue

rinsing.

In case of contact, flush eyes with plenty of water for at least 30 minutes. Use fingers to ensure that eyelids are separated

and that the eye is being irrigated.

Chemical burns must be treated promptly by a physician.

If swallowed

: Get medical attention immediately.

Rinse mouth with water.

Remove victim to fresh air and keep at rest in a position com-

fortable for breathing.

Give small amounts of water to drink.

Do not induce vomiting unless directed to do by medical per-

sonnel.

If vomiting occurs, the head should be kept low so that vomit

does not enter the lungs.

Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical

attention immediately. Maintain open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

Symptoms : respiratory tract irritation

Inhalation may provoke the following symptoms:

Skin: Causes irritation with symptoms of reddening, itching,

and swelling.

Eye: Causes irritation with symptoms of reddening, tearing,

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stinging, and swelling.

Effects : Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Harmful if inhaled.

: Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : In case of fire, use water spray (fog), foam or dry chemical.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

None known.

Specific hazards during fire-

fighting

In a fire or if heated, a pressure increase will occur and the

container may burst.

Toxic and irritating gases/fumes may be given off during burn-

ing or thermal decomposition.

Water runoff from fire fighting may be corrosive.

Hazardous combustion prod-

ucts

Carbon dioxide (CO2)

Carbon monoxide
Nitrogen oxides (NOx)

Sulphur oxides

Further information : Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without

suitable training.

Special protective equipment:

for firefighters

Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

No action shall be taken involving any personal risk or without

suitable training.

Put on appropriate personal protection equipment.

Do not touch or walk through spilled material.

Evacuate personnel to safe areas.

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Keep unnecessary and unprotected personnel from entering.

Do not breathe vapours or spray mist.

In case of inadequate ventilation wear respiratory protection.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

Methods and materials for containment and cleaning up

Stop leak if safe to do so.

Move containers from spill area.

Wash spillages into an effluent treatment plant or proceed as

follows.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters or

groundwater or into the soil.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust.

Avoid inhalation, ingestion and contact with skin and eyes. Remove contaminated clothing and protective equipment be-

fore entering eating areas.

Workers should wash hands and face before eating, drinking

and smoking.

Put on appropriate personal protection equipment.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Use only with adequate ventilation.

Persons with a history of skin sensitization to this product should not be employed in any process in which this product

is used.

Conditions for safe storage : Store in accordance with local regulations.

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible

materials (see Section 10) and food and drink.

Keep container closed when not in use.

Containers that have been opened must be carefully resealed

and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate container to avoid environmental contamina-

tion.

Do not store near acids. Protect from freezing.

Store away from incompatible materials (see section 10) and

food and drink.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

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Do not reuse container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Use process enclosures, local exhaust ventilation or other

engineering controls to keep airborne levels below recom-

mended exposure limits.

Personal protective equipment

Respiratory protection : NIOSH approved, air-purifying organic vapor respirator.

Hand protection

Material : Permeation resistant gloves.

Material : PVC

Eye protection : Tightly fitting safety goggles

or

Face-shield

Skin and body protection : Permeation resistant clothing and foot protection.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : white

Odour : odourless

Odour Threshold : No data available

pH : 6-8

Concentration: 100 %

Melting point/range : No data available

Boiling point/boiling range : -148 °F / -100 °C

Flash point : $> 280.00 \, ^{\circ}\text{F} \, / > 137.78 \, ^{\circ}\text{C}$

Method: open cup

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Evaporation rate : No data available

Self-ignition : No data available

Burning number : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative density : No data available

Density : No data available

Solubility(ies)

Water solubility : partly soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 348 mm2/s (68 °F / 20 °C)

Explosive properties : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this

product or its ingredients.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : Protect from freezing.

Incompatible materials : Oxidizing agents

Reducing agents

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Mild steel Aluminium Copper

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity : LD50 (Rat, female): 3,129 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.07 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Components:

1,2-benzisothiazolin-3-one:

Acute oral toxicity : LD50 (Rat, male and female): 670 mg/kg

Method: OECD Test Guideline 401

LD50 (Rat, male and female): 454 mg/kg Method: OECD Test Guideline 401

LD50 (Rat, male and female): 490 mg/kg Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Dosage caused no mortality

LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Extrapolation according to Regulation (EC) No.

440/2008

Skin corrosion/irritation

Causes skin irritation.

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Product:

Species : Rabbit

Assessment : Irritating to skin. Result : Irritating to skin.

Components:

1,2-benzisothiazolin-3-one:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species : Rabbit

Result : Irritating to eyes. Assessment : Irritating to eyes.

Components:

1,2-benzisothiazolin-3-one:

Species : Rabbit

Result : Risk of serious damage to eyes.

Method : EPA OPP 81-4

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

1,2-benzisothiazolin-3-one:

Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

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1,2-benzisothiazolin-3-one:

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Genotoxicity in vitro : Test system: Bacteria

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo : Species: Rat (male)

Application Route: Oral

Method: OECD Test Guideline 486

Result: negative

Species: Mouse (male and female)

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Not classified based on available information.

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

1,2-benzisothiazolin-3-one:

Effects on fertility : Species: Rat, female

Application Route: Oral

General Toxicity - Parent: NOAEL: 112 mg/kg body weight General Toxicity F1: NOAEL: 56.6 mg/kg body weight General Toxicity F2: NOAEL: 56.6 mg/kg body weight

Method: OPPTS 870.3800

Result: negative

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Effects on foetal develop-

ment

Species: Rat, female Application Route: Oral

Developmental Toxicity: NOAEL: 112 mg/kg body weight

Method: OPPTS 870.3800

Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

1,2-benzisothiazolin-3-one:

Species : Rat, male and female

NOAEL : 150 mg/kg Application Route : Oral

Exposure time : 28 d

Method : OECD Test Guideline 407

Remarks : Subacute toxicity

Species : Rat, male and female

NOAEL : 69 mg/kg Application Route : Oral Exposure time : 90 d

Method : Regulation (EC) No. 440/2008, Annex, B.26

Remarks : Subchronic toxicity

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

1,2-benzisothiazolin-3-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.15 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.9 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

mg/l

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.11

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plants

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Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)):

0.0403 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms

EC50 (adapted and activated sludge micro-organism): 12.8

mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Persistence and degradability

Components:

1,2-benzisothiazolin-3-one:

Biodegradability : Result: rapidly biodegradable

Remarks: Considered rapidly degradable in the environment.

Stability in water : Degradation half life: 2 - 3 Days (12 °C)

Remarks: Estuary

Degradation half life: 5 - 12 Days (12 °C)

Remarks: Marine water

Bioaccumulative potential

Components:

1,2-benzisothiazolin-3-one:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 6.62 Method: OECD Test Guideline 305

Partition coefficient: n-

log Pow: 0.7 (68 °F / 20 °C)

octanol/water

Method: Regulation (EC) No. 440/2008, Annex, A.8

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conserva- : tion and Recovery Authoriza-

When discarded in its purchased form, this product meets the criteria of corrosivity, and should be managed as a hazardous

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tion Act waste (EPA Hazardous Waste Number D002). (40 CFR

261.20-24)

Waste from residues : The generation of waste should be avoided or minimized

wherever possible.

This material and its container must be disposed of in a safe

way.

Empty containers retain product residue; observe all precau-

tions for product.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

Waste disposal should be in accordance with existing federal,

state, provincial and/or local environmental controls.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

Hazard and Handling Notes. : Not dangerous cargo, Risk of serious damage to eyes, Irritat-

ing to skin., Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Respiratory or skin sensitisation

Skin corrosion or irritation

Serious eye damage or eye irritation

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SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

water 7732-18-5 >= 80 - < 901,2-benzisothiazolin-3-one 2634-33-5 >= 10 - < 20

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA inventory

TSCA : This product is regulated under the United States Federal

Insecticide, Fungicide and Rodenticide Act (FIFRA).

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

FIFRA information

EPA registration number : 39967-152

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word : DANGER

Hazard statements : Causes irreversible eye damage. Harmful if swallowed. Pro-

longed or frequently repeated skin contact may cause allergic

reactions in some individuals.

SECTION 16. OTHER INFORMATION

Further information

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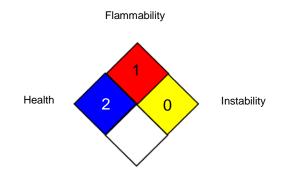
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NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response: ERG - Emergency Response Guide: GHS - Globally Harmonized System: GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory;

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TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The 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, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.