



SAFETY DATA SHEET

Cat. No. CTG-BK032C, Myeloperoxidase Colorimetric Activity Assay Kit

ISSUE DATE MAY 3, 2019

1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Myeloperoxidase Colorimetric Activity Assay Kit

PRODUCT CODES: Cat. No. CTG-BK032C

MANUFACTURER: Celltechgen LLC

ADDRESS: 14780 Memorial Drive, Suite 210, Houston, TX 77079, United States

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SECTION 2. HAZARDS IDENTIFICATION

| Component | Description | Volume | Safety Information |
|----------------------|--|--------|--------------------|
| MPO Assay Buffer | Proprietary Buffer | 25 ml | No hazards |
| DTNB Probe | In DMSO | 75 µl | See below |
| TCEP | Liquid | 75 µl | See below |
| MPO Substrate | Liquid (contains H ₂ O ₂) | 50 µl | See below |
| Stop Mix | Liquid | 20 µl | No hazards |
| MPO Positive Control | Lyophilized | n/a | No hazards |

DMSO:

Emergency Overview

OSHA Hazards: Combustible Liquid, Target Organ Effect

Target Organs: Eyes, Skin

GHS Classification: Flammable liquids (Category 4)

GHS Label elements, including precautionary statements

Pictogram: none

Signal word: Warning

Hazard statement(s): H227 Combustible liquid

Precautionary statement(s): none

HMIS Classification

Health hazard: 0

Chronic Health Hazard: *

Flammability: 2

Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 2

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Aggravated Medical Condition: Avoid contact w/DMSO solutions containing toxic materials or materials with unknown toxicological properties. DMSO is readily absorbed through skin and may carry such materials into the body.

DTNB:

Emergency Overview

OSHA Hazards: Irritant

GHS Classification:

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity – single exposure (Category 3)

GHS Label elements, including precautionary statements

Pictogram:

Signal word: Warning

Hazard statement(s): H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s): P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.



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P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

HMIS Classification

Health hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating

Health Hazard: 2
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

TCEP:

Emergency Overview

OSHA Hazards: Irritant

GHS Classification:

Skin irritation (Category 2)
Serious eye irritation (Category 1)

GHS Label elements, including precautionary statements

Pictogram:



Signal word:

Warning

Hazard statement(s):

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

HMIS Classification

Health hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating

Health Hazard: 2
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

Hydrogen peroxide:

Emergency Overview

OSHA Hazards: Oxidizer, Target organ effect, Harmful by ingestion, Corrosive

Target Organs: Eyes, Skin, Respiratory system

GHS Classification:

Oxidizing liquids (Category 1)



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Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 5)
Skin corrosion (Category 1A)
Serious eye damage (Category 1)
Acute aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements

Pictogram:



Signal word:

Danger

Hazard statement(s): H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statement(s): Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 + P310 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.

HMIS Classification

Health hazard: 3

Chronic health hazard: *

Flammability: 0

Physical hazards: 2

NFPA Rating

Health Hazard: 3

Fire: 0

Reactivity Hazard: 2

Special Hazard: OX

Potential Health Effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Ingestion: Harmful if swallowed.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS Number | EC-No. | Molecular Weight | Chemical Formula |
|--|------------|-----------|------------------|---|
| DMSO | 67-68-5 | 200-664-3 | 78.13 | C ₂ H ₆ OS |
| 5,5'-Dithiobis(2-nitrobenzoic acid) [DTNB] | 69-78-3 | 200-714-4 | 396.35 | C ₁₄ H ₈ N ₂ O ₈ S ₂ |
| TCEP | 51805-45-9 | | 286.65 | C ₉ H ₁₅ O ₆ P · HCl |
| Hydrogen peroxide | 7722-84-1 | 231-765-0 | 34.01 | H ₂ O ₂ |

SECTION 4. FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing during transport to hospital.

If swallowed: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5. FIRE-FIGHTING MEASURES

DMSO:

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

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Hazardous combustion products: Hazardous combustion products formed under fire conditions – no data available.

Further information: Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid contact with skin and eyes.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

DMSO:

| Components | CAS-No. | Value | Control parameters | Basis |
|--------------------|---------|-------|--------------------|---|
| Dimethyl sulfoxide | 67-68-5 | TWA | 250 ppm | USA. Workplace Environmental Exposure Levels (WEEL) |

Hydrogen peroxide

| Components | CAS-No. | Value | Control parameters | Basis |
|-------------------|--|-------|---|--|
| Hydrogen peroxide | 7722-84-1 | TWA | 1 ppm | USA. ACGIH Threshold Values (TLV) |
| Remarks: | Eye, skin, & upper respiratory tract irritation. Confirmed animal carcinogen with unknown relevance to humans. | | | |
| | | TWA | 1 ppm ₃ 1.4 mg/m ³ | USA. NIOSH Recommended Exposure Limits |
| | | TWA | 1 ppm ₃ 1.4 mg/m ³ | USA. Occupational Exposure Limits (OSHA) – Table Z-1 – Limits for Air Contaminants |
| | The value in mg/m ³ is approximate. | | | |
| | | TWA | 1 ppm 1.4 mg/m ³ | USA. OSHA – Table Z-1 Limits for Air Contaminants – 1910.1000 |

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Property | DMSO | DTNB | TCEP | Hydrogen peroxide |
|-------------|--------------|---------------------|--------|-------------------|
| Appearance: | Clear liquid | Light yellow powder | liquid | Clear liquid |

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| | | | | |
|-----------------------------------|---------------------|-------------------------|-------------------|-------------------|
| pH: | No data available | No data available | 6.0-8.0 | No data available |
| Water Solubility: | Completely miscible | No data available | No data available | No data available |
| Other Solubility: | No data available | No data available | No data available | No data available |
| Boiling Point (°C): | 189 °C (372 °F) | No data available | No data available | No data available |
| Melting Point (°C): | 16-19 °C (61-66 °F) | 240-250 °C (464-473 °F) | No data available | No data available |
| Flash Point (°C): | 87 °C (189 °F) | No data available | No data available | No data available |
| Ignition Temperature (°C): | 301 °C (574 °F) | No data available | No data available | No data available |
| Density: | 1.1 g/ml | No data available | No data available | 1.11 g/cm3 |

SECTION 10. STABILITY AND REACTIVITY

| Property | DMSO | DTNB | TCEP | Hydrogen peroxide |
|--|---|---|-------------------------|--|
| Chemical stability: | Stable under recommended storage conditions | | | |
| Conditions to avoid: | Heat, flames, sparks | No data available | No data available | Not data available |
| Materials to avoid: | Acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents | Strong oxidizing agents, strong bases | Strong oxidizing agents | Zinc, powdered metals, iron, copper, nickel, brass, iron, and iron salts |
| Hazardous decomposition products: | Carbon oxides, sulfur oxides | Carbon oxides, nitrogen oxides, sulfur oxides | No data available | No data available |

SECTION 11. TOXICOLOGICAL INFORMATION

DMSO:

Acute toxicity: LD50 Oral – rat – 14,500 mg/kg

LC50 Inhalation – rat – 4 h – 40250 ppm

LD50 Dermal – rabbit – >5,000 mg/kg

Skin corrosion/irritation: Skin – rabbit – no skin irritation – 4h

Serious eye damage/eye irritation: Eyes – rabbit – mild eye irritation

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Genotoxicity in vitro – mouse – lymphocyte: Cytogenetic analysis

Genotoxicity in vitro – mouse – lymphocyte: Mutation in mammalian somatic cells

Genotoxicity in vivo – rat – Intraperitoneal: Cytogenetic analysis

Genotoxicity in vivo – mouse – Intraperitoneal: DNA damage

Carcinogenicity: Carcinogenicity – rat – Oral □ Tumorigenic: equivocal tumorigenic agent by RTECS criteria. Skin and appendages: other: tumors.

Carcinogenicity – mouse – Oral □ Tumorigenic: equivocal tumorigenic agent by RTECS criteria. Leukemia skin and appendages: other: tumors.

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Reproductive toxicity – rat – Intraperitoneal □ Effects on fertility: abortion

Reproductive toxicity – rat – Intraperitoneal □ Effects on fertility: post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants)

Reproductive toxicity – rat – Subcutaneous □ Effects on fertility: post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants). Effects on fertility: litter size (e.g. # fetuses per litter; measured before birth)

Reproductive toxicity – mouse – Oral □ Effects on fertility: post-implantation mortality (e.g. reduction in number of implants per female; total

number of implants per corpora lutea). Effects on embryo/fetus: Fetotoxicity (except death, e.g. stunted fetus). Specific developmental

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abnormalities: musculoskeletal system.

Teratogenicity: Developmental toxicity – mouse – Intraperitoneal: Effects on embryo/fetus: Fetotoxicity (except death, e.g. stunted fetus).

Specific developmental abnormalities: musculoskeletal system

Specific target organ toxicity – single exposure (GHS): no data available

Specific target organ toxicity – repeated exposure (GHS): no data available

Aspiration hazard: no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Aggravated Medical Condition: Avoid contact w/DMSO solutions containing toxic materials or materials with unknown toxicological properties. DMSO is readily absorbed through skin and may carry such materials into the body.

Signs and Symptoms of Exposure: Effects due to ingestion may include: nausea, fatigue, and/or headache.

Additional information: RTECS: PV6210000

DTNB:

Acute toxicity: LD50 Intraperitoneal – mouse – 2,080 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): no data available

Specific target organ toxicity – repeated exposure (GHS): no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information: RTECS: DG9650000

Hydrogen peroxide:

Acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Hydrogen peroxide)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): no data available

Specific target organ toxicity – repeated exposure (GHS): no data available



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Aspiration hazard: no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Ingestion: Harmful if swallowed.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional information: RTECS: not available

SECTION 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability): no data available

Ecotoxicity effects: Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/l - 96 h; LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h; Toxicity to daphnia and other aquatic invertebrates.; EC50 - Daphnia pulex (Water flea) - 27,500 mg/l Toxicity to algae EC50 - Lepomis macrochirus (Bluegill) - > 400,000 mg/l - 96 h

Further information on ecology: no data available

Hydrogen peroxide:

Persistence and degradability: no data available

Toxicity: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DMSO:

DOT (US): UN-Number: 1993, Class: CBL Packing group: III

Proper shipping name: Combustible liquid, n.o.s. (Dimethyl sulfoxide)

Marine pollutant: No; Poison Inhalation Hazard: No

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

Hydrogen peroxide:

DOT (US): UN-Number: 2014, Class: 5.1 (8), Packing group: II;

Proper shipping name: Hydrogen peroxide, aqueous solutions

Marine pollutant: No; Poison Inhalation Hazard: No

IMDG: UN-Number: 2014, Class: 5.1 (8), Packing group: II; EMS-No: F-H, S-Q;

Proper shipping name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION;

Marine pollutant: No

IATA: UN-Number: 2014, Class: 5.1 (8), Packing group: II;

Proper shipping name: Hydrogen peroxide, aqueous solution

SECTION 15. REGULATORY INFORMATION

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OSHA Hazards: DTNB: Irritant

DMSO: Combustible liquid, Target organ effect

Hydrogen peroxide: Oxidizer, Target organ effect, Harmful by ingestion, Corrosive

SARA 302 Components: SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: 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 II, Section 313.

SARA 311/312 Hazards: DTNB: Acute Health Hazard

DMSO: Fire Hazard, Chronic Health Hazard

Hydrogen peroxide: Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components: Hydrogen peroxide, CAS-No. 7722-84-1; Revision Date: 1993-04-24

Pennsylvania Right To Know Components: Dimethyl sulfoxide CAS-No. 67-68-5

Hydrogen peroxide, CAS-No. 7722-84-1; Revision Date: 1993-04-24

Tris(2-carboxyethyl)phosphine hydrochloride, CAS-No. 51805-45-9

DTNB, CAS-No. 69-78-3

New Jersey Right To Know Components: Dimethyl sulfoxide CAS-No. 67-68-5

Hydrogen peroxide, CAS-No. 7722-84-1; Revision Date: 1993-04-24

Tris(2-carboxyethyl)phosphine hydrochloride, CAS-No. 51805-45-9

DTNB, CAS-No. 69-78-3

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

EU regulations:

| Component | Risk Phrases | Safety Phrases |
|-------------------|----------------|-----------------------------|
| DMSO | R10, R36/37/38 | S24/25, S36/37/39, S45 |
| DTNB | R36/37/38 | S22, S24/25, S36/37/39, S45 |
| TCEP | R34 | S26, S36/37/39, S45 |
| Hydrogen peroxide | R22, R41 | S26, S39 |

SECTION 16. OTHER INFORMATION

DISCLAIMER:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and re-lease and is not to be considered a 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.

US / Z8 / 1711