

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

073761731

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

073761723 073761749 073761756

# Material Safety Data Sheet

**ECOLAB®**

ENDURE 400 SCRUB-STAT 4 FOAM

## Section 1. Chemical product and company identification

**Trade name** : ENDURE 400 SCRUB-STAT 4 FOAM  
**Product use** : Skin antiseptic  
**Supplier** : Ecolab Inc. Healthcare Division  
370 N. Wabasha St.  
St. Paul, MN 55102  
1-866-781-8787  
**Code** : 920896-04  
**Date of issue** : 23-March-2010

**EMERGENCY HEALTH INFORMATION: 1-800-328-0026**  
**Outside United States and Canada CALL 1-651-222-5352 (in USA)**

## Section 2. Hazards identification

**Physical state** : Liquid. [Liquid.]  
**Emergency overview** : WARNING !

CAUSES SEVERE EYE IRRITATION. Untreated contact may cause chemical burns.  
COMBUSTIBLE LIQUID AND VAPOR.  
MAY BE HARMFUL IF SWALLOWED.  
MAY CAUSE ALLERGIC SKIN REACTION.  
Do not use in the perineal or eyelid areas.  
Do not instill in the middle ear – may cause deafness if ear drum is perforated.  
Do not ingest. Avoid contact with eyes. Keep away from heat, sparks and flame.

### Potential acute health effects

**Eyes** : Severely irritating to eyes. Untreated contact may cause chemical burns.  
**Skin** : Do not use in the perineal or eyelid areas. Do not instill in the middle ear – may cause deafness if ear drum is perforated.  
**Inhalation** : Slightly irritating to the respiratory system.  
**Ingestion** : Irritating to mouth, throat and stomach.

See toxicological information (section 11)

## Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
COCAMINE OXIDE	61788-90-7	1 - 5
ISOPROPYL ALCOHOL	67-63-0	1 - 5
CHLORHEXIDINE DIGLUCONATE	18472-51-0	1 - 5
COCAMIDE DEA	68603-42-9	1 - 5

## Section 4. First aid measures

**Eye contact** : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

**Skin contact** : Get medical attention if symptoms appear. Wash clothing before reuse.

**Inhalation** : If inhaled, remove to fresh air.

**Ingestion** : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## Section 5. Fire-fighting measures

- Flash point** : 48.3333 °C (Closed cup)
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds
- Fire-fighting media and instructions** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Use water spray to keep fire-exposed containers cool. Dike area of fire to prevent runoff.  
Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions** : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

- Handling** : Do not ingest. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources.
- Storage** : Keep out of reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).  
Do not store above the following temperature: 30°C

## Section 8. Exposure controls/personal protection

- Engineering measures** : No special ventilation requirements. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Personal protection :

- Eyes** : Wear eye protection.
- Hands** : No protective equipment is needed under normal use conditions.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : No protective equipment is needed under normal use conditions.

### Name

ISOPROPYL ALCOHOL

### Exposure limits

ACGIH TLV (United States, 1/2009).

STEL: 400 ppm 15 minute(s).

TWA: 200 ppm 8 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 980 mg/m<sup>3</sup> 8 hour(s).

TWA: 400 ppm 8 hour(s).

## Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Color	: Amber.
Odor	: Floral.
pH	: 6 to 7.5 [Conc. (% w/w): 100%]
Boiling/condensation point	: >100°C (>212°F)
Relative density	: 1

## Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11. Toxicological information

### Potential acute health effects

Eyes	: Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin	: Do not use in the perineal or eyelid areas. Do not instill in the middle ear – may cause deafness if ear drum is perforated.
Inhalation	: Slightly irritating to the respiratory system.
Ingestion	: Irritating to mouth, throat and stomach.

### Potential chronic health effects

### Other adverse effects

Target organs	: Contains material which causes damage to the following organs: ears. Contains material which may cause damage to the following organs: upper respiratory tract, central nervous system (CNS).
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## Section 12. Ecological information

Ecotoxicity data	: Not reported
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## Section 13. Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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Waste classification	: Unused product is D001 (Ignitable)
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Consult your local or regional authorities.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### UN Classification

UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.(Contains Isopropanol)
Class	3
Packing group	III

Additional information      Limited quantity

See shipping documents for specific transportation information.

## Section 15. Regulatory information

**HCS Classification** : Combustible liquid  
Irritating material  
Sensitizing material  
Target organ effects

### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances**: No products were found.

**SARA 302/304 emergency planning and notification**: No products were found.

**California Prop. 65** : No products were found.

## Section 16. Other information

**Hazardous Material  
Information System (U.S.A.)** :

Health	*	2
Flammability		2
Physical hazards		0

**Date of issue** : 23-March-2010.

**Responsible name** : Regulatory Affairs

**Date of previous issue** : 23-March-2007.

### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ENDURE 400 SCRUB-STAT 4 FOAM

Other means of identification : Not applicable

Recommended use : Skin antiseptic

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 01/14/2015

**SECTION 2. HAZARDS IDENTIFICATION**
**GHS Classification**

Flammable liquids : Category 3

Eye irritation : Category 2A

Carcinogenicity : Category 2

**GHS Label element**

Hazard pictograms :





Signal Word : Warning

Hazard Statements : Flammable liquid and vapor.  
Causes serious eye irritation.  
Suspected of causing cancer.

Precautionary Statements : **Prevention:**  
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Wear protective gloves/ eye protection/ face protection. Use personal protective equipment as required.

**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**  
Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

## SAFETY DATA SHEET

### ENDURE 400 SCRUB-STAT 4 FOAM

Other hazards : None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
amines, coco alkyl dimethyl, n-oxides	61788-90-7	1 - 5
Isopropyl Alcohol	67-63-0	1 - 5
Propylene glycol	57-55-6	1 - 5
Chlorhexidine gluconate	18472-51-0	1 - 5
amides, coco, n,n-bis(hydroxyethyl)	68603-42-9	1 - 5
2,2'-iminodiethanol	111-42-2	0.1 - 1

#### SECTION 4. FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

In case of skin contact : Rinse with water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Fire Hazard  
Keep away from heat and sources of ignition.  
Flash back possible over considerable distance.  
Beware of vapors accumulating to form explosive concentrations.  
Vapors can accumulate in low areas.

Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

Special protective equipment for fire-fighters : Use personal protective equipment.

Specific extinguishing : Use water spray to cool unopened containers. Fire residues and

## SAFETY DATA SHEET

### ENDURE 400 SCRUB-STAT 4 FOAM

methods : contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 30 °C

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m <sup>3</sup>	NIOSH REL
		STEL	500 ppm 1,225 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA Z1
Propylene glycol	57-55-6	TWA	10 mg/m <sup>3</sup>	WEEL
2,2'-iminodiethanol	111-42-2	TWA (Inhalable fraction and vapor)	1 mg/m <sup>3</sup>	ACGIH
		TWA	3 ppm 15 mg/m <sup>3</sup>	NIOSH REL

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.



## SAFETY DATA SHEET

### ENDURE 400 SCRUB-STAT 4 FOAM

#### Personal protective equipment

Eye protection	: Safety glasses with side-shields
Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.
Hygiene measures	: No specific measures identified.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, amber
Odor	: Floral
pH	: 6.0 - 7.5, 100 %
Flash point	: 48 °C closed cup
Odor Threshold	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: > 100 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 1.0
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

#### SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous	: No dangerous reaction known under conditions of normal use.

## SAFETY DATA SHEET

### ENDURE 400 SCRUB-STAT 4 FOAM

reactions

- Conditions to avoid : Heat, flames and sparks.
- Incompatible materials : None known.
- Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

- Eyes : Causes serious eye irritation.
- Skin : Do not use in the perineal or eyelid areas. Do not instill in the middle ear – may cause deafness if ear drum is perforated.
- Ingestion : Health injuries are not known or expected under normal use.
- Inhalation : Health injuries are not known or expected under normal use.
- Chronic Exposure : Suspected of causing cancer.

#### Experience with human exposure

- Eye contact : Redness, Pain, Irritation
- Skin contact : No symptoms known or expected.
- Ingestion : No symptoms known or expected.
- Inhalation : No symptoms known or expected.

#### Toxicity

- Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
- Acute inhalation toxicity : No data available
- Acute dermal toxicity : No data available
- Skin corrosion/irritation : No data available
- Serious eye damage/eye irritation : Eye irritation
- Respiratory or skin sensitization : No data available
- Carcinogenicity

IARC

#### Group 2B: Possibly carcinogenic to humans

amides, coco, n,n-bis(hydroxyethyl) 68603-42-9  
2,2'-iminodiethanol 111-42-2

OSHA No ingredient of this product present at levels greater than or equal to

## SAFETY DATA SHEET

### ENDURE 400 SCRUB-STAT 4 FOAM

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : No data available

Germ cell mutagenicity : No data available

Teratogenicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration toxicity : No data available

#### Ingredients

Acute inhalation toxicity : Isopropyl Alcohol  
4 h LC50 Rat: 30 mg/l

Propylene glycol  
4 h LC50 Rat: > 158.5 mg/l

Chlorhexidine gluconate  
4 h LC50 : 0.365 mg/l

#### Ingredients

Acute dermal toxicity : amines, coco alkyl dimethyl, n-oxides  
LD50 Rat: > 2,174 mg/kg

Isopropyl Alcohol  
LD50 Rabbit: 12,870 mg/kg

Chlorhexidine gluconate  
LD50 Rabbit: > 2,000 mg/kg

amides, coco, n,n-bis(hydroxyethyl)  
LD50 Rat: > 2,000 mg/kg

2,2'-iminodiethanol  
LD50 Rabbit: 8,180 mg/kg

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

#### Product

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

#### Ingredients

Toxicity to fish : amines, coco alkyl dimethyl, n-oxides  
96 h LC50 Fish: 1 mg/l

## SAFETY DATA SHEET

### ENDURE 400 SCRUB-STAT 4 FOAM

Isopropyl Alcohol  
96 h LC50 Fish: 9,640 mg/l

Propylene glycol  
96 h LC50: > 10,000 mg/l

amides, coco, n,n-bis(hydroxyethyl)  
96 h LC50 Fish: 3.6 mg/l

#### Ingredients

Toxicity to daphnia and other aquatic invertebrates : Propylene glycol  
48 h EC50: 18,340 mg/l

Chlorhexidine gluconate  
48 h EC50: 0.06 mg/l

2,2'-iminodiethanol  
48 h EC50 Daphnia : 65.5 mg/l

#### Ingredients

Toxicity to algae : Propylene glycol  
96 h EC50: 19,000 mg/l

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D001 (Ignitable)

### SECTION 14. TRANSPORT INFORMATION

## SAFETY DATA SHEET

### ENDURE 400 SCRUB-STAT 4 FOAM

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

Not dangerous goods

#### Sea transport (IMDG/IMO)

UN number : 1993  
Description of the goods : FLAMMABLE LIQUID, N.O.S.  
(Isopropanol, Chlorhexidine digluconate)  
Class : 3  
Packing group : III  
Marine pollutant : yes

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2,2'-iminodiethanol	111-42-2	100	71429

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Chronic Health Hazard  
Fire Hazard  
Acute Health Hazard

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

**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.

#### California Prop 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

amides, coco, n,n-bis(hydroxyethyl)	68603-42-9
2,2'-iminodiethanol	111-42-2

The ingredients of this product are reported in the following inventories:

#### United States TSCA Inventory :

On TSCA Inventory

#### Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL.

#### Australia Inventory of Chemical Substances (AICS) :

not determined

#### New Zealand. Inventory of Chemical Substances :

On the inventory, or in compliance with the inventory

## SAFETY DATA SHEET

### ENDURE 400 SCRUB-STAT 4 FOAM

**Japan. ENCS - Existing and New Chemical Substances Inventory :**  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI) :**  
not determined

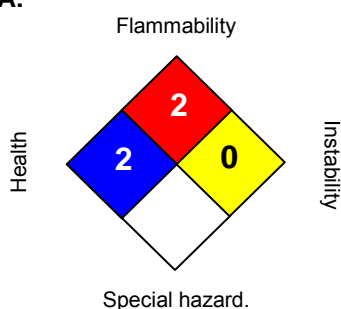
**Korea. Korean Existing Chemicals Inventory (KECI) :**  
not determined

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
not determined

**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
not determined

### SECTION 16. OTHER INFORMATION

#### NFPA:



#### HMIS III:

HEALTH	2*
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 01/14/2015  
Version : 1.0  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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 release 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.