

1. Identification

Product identifier REDKEN BREWS ANTI-THINNING SHAMPOO
Other means of identification
SDS number 00-11-0000370
Recommended use Personal care product used for cosmetic effect.
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information

US Address: L'Oreal USA Products, Inc
133 Terminal Avenue
Clark, NJ 07066
USA

Canadian Address: L'Oreal Canada
4895 rue Hickmore
Ville St-Laurent, H4T 1K5
Canada

Emergency Phone # : 1-800-535-5053 (International: 352-323-3500)
In Canada - 1-613-996-6666 (Canutec (*666 Cellular))

For further information: 1-732-499-2741

Poison Control # : 412-390-3326

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
OSHA defined hazards Not classified.

Label elements



Signal word Danger
Hazard statement Causes skin irritation. Causes serious eye damage.
Precautionary statement
Prevention Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves.
Response If on skin: Wash with plenty of water. 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/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|------------------------|--------------------------|------------|-----|
| SODIUM LAURETH SULFATE | | 3088-31-1 | 11 |
| SODIUM LAURYL SULFATE | | 85586-07-8 | 4 |
| COCAMIDE MIPA | | 68333-82-4 | 2.7 |
| GLYCERIN | | 56-81-5 | 2 |
| HEXYLENE GLYCOL | | 107-41-5 | 1 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

| | |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. Fire-fighting measures

| | |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

| | |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| Environmental precautions | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. |

7. Handling and storage

Precautions for safe handling Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|------------------------|------|----------------------|----------------------|
| GLYCERIN (CAS 56-81-5) | PEL | 5 mg/m ³ | Respirable fraction. |
| | | 15 mg/m ³ | Total dust. |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|--------------------------------|---------|--------|
| HEXYLENE GLYCOL (CAS 107-41-5) | Ceiling | 25 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|--------------------------------|---------|-----------------------|
| HEXYLENE GLYCOL (CAS 107-41-5) | Ceiling | 125 mg/m ³ |
| | | 25 ppm |

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Viscous Liquid

Color Colorless

Odor Characteristic.

Odor threshold Not available.

pH 5 - 5.6

Melting point/freezing point Not available.

Initial boiling point and boiling range > 212 °F (> 100 °C)

Flash point > 212.0 °F (> 100.0 °C)

Evaporation rate Not available.

| | |
|-----------------------------------------------------|-----------------|
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Specific gravity | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |

10. Stability and reactivity

| | |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|----------------------------------------|
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes serious eye damage. |
| Ingestion | Expected to be a low ingestion hazard. |

| | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms related to the physical, chemical and toxicological characteristics | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Information on toxicological effects

| | |
|-----------------------|------------|
| Acute toxicity | Not known. |
|-----------------------|------------|

| Product | Species | Test Results |
|------------------------------------|---------|-----------------------|
| REDKEN BREWS ANTI-THINNING SHAMPOO | | |
| <u>Acute</u> | | |
| Oral | | |
| ATEmix | | 4052.6849 mg/kg |
| Components | Species | Test Results |
| COCAMIDE MIPA (CAS 68333-82-4) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg OECD 402 |
| Oral | | |
| LD50 | Rat | > 2000 mg/kg OECD 401 |

| Components | Species | Test Results |
|----------------------------------------|---------|------------------------------|
| GLYCERIN (CAS 56-81-5) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 18700 mg/kg bw |
| Inhalation | | |
| LC50 | Rat | > 570 mg/L air, 1 h |
| Oral | | |
| LD50 | Rat | 27200 mg/kg bw |
| HEXYLENE GLYCOL (CAS 107-41-5) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 2000 mg/kg OECD 402 |
| Inhalation | | |
| LC50 | Rat | > 60 ml/m3 air, 8 h OECD 403 |
| Oral | | |
| LD50 | Rat | > 2000 mg/kg OECD 420 |
| SODIUM LAURETH SULFATE (CAS 3088-31-1) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 2000 mg/kg OECD 402 |
| Oral | | |
| LD50 | Rat | 2870 mg/kg OECD 401 |
| SODIUM LAURYL SULFATE (CAS 85586-07-8) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg |
| Oral | | |
| LD50 | Rat | 1800 mg/kg |

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Irritation Corrosion - Skin

| | |
|------------------------|-----------------------------------------------------------------------------------------------------------|
| SODIUM LAURETH SULFATE | OECD 404 Result: Irritating Species: Rabbit |
| SODIUM LAURYL SULFATE | OECD 404 Result: Irritating Species: Rabbit |
| COCAMIDE MIPA | OECD 404, Based on test data for structurally similar materials. Result: Irritating Species: Rabbit |
| HEXYLENE GLYCOL | OECD 405 Result: Slightly irritating Species: Rabbit |
| GLYCERIN | Result: Not Irritating Species: Rabbit |

Serious eye damage/eye irritation Causes serious eye damage.

Irritation Corrosion - Eye

| | |
|-----------------------|------------------------------------------------------------|
| HEXYLENE GLYCOL | OECD 405 Result: Slightly irritating Species: Rabbit |
| SODIUM LAURYL SULFATE | OECD 405, (>=20%) Result: Corrosive Species: Rabbit |

Irritation Corrosion - Eye

SODIUM LAURETH SULFATE

OECD 405, ($\geq 10\%$)
Result: Serious eye damage
Species: Rabbit

COCAMIDE MIPA

OECD 405, Based on test data for structurally similar materials.

Result: Corrosive
Species: Rabbit

HEXYLENE GLYCOL

Result: Irritating
Species: Human

GLYCERIN

Result: Not Irritating
Species: Rabbit**Respiratory or skin sensitization****Respiratory sensitization** Not a respiratory sensitizer.**Skin sensitization** This product is not expected to cause skin sensitization.**Skin sensitization**

GLYCERIN

167 mg/m³ air OECD 413, Inhalation
Result: NOAELSpecies: Rat
Test Duration: 90 d

COCAMIDE MIPA

OECD 406
Result: Not SensitizingSpecies: Guinea pig
OECD 406

HEXYLENE GLYCOL

Result: Not Sensitizing
Species: Guinea pig

SODIUM LAURETH SULFATE

OECD 406
Result: Not SensitizingSpecies: Guinea pig
OECD 406

SODIUM LAURYL SULFATE

Result: Not Sensitizing
Species: Guinea pig

GLYCERIN

Result: Not Sensitizing
Species: Guinea pig**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.**Mutagenicity**

GLYCERIN

Result: In vitro and in vivo tests did not show mutagenic effects.

SODIUM LAURETH SULFATE

Result: In vitro and in vivo tests did not show mutagenic effects.

SODIUM LAURYL SULFATE

Result: In vitro and in vivo tests did not show mutagenic effects.

COCAMIDE MIPA

Result: In vitro tests did not show mutagenic effects

HEXYLENE GLYCOL

Result: In vitro tests did not show mutagenic effects

Carcinogenicity Not classifiable as to carcinogenicity to humans.**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.**Developmental effects**

COCAMIDE MIPA

> 1000 mg/kg bw/d OECD 414, Based on test data for structurally similar materials.

Result: NOAEL
Species: Rat

SODIUM LAURETH SULFATE

1000 mg/kg bw/d OECD 414
Result: NOAEL

Species: Rat

GLYCERIN

1310 mg/kg bw/d, No effects on development
Result: NOAEL

Species: Rat

Developmental effects

SODIUM LAURYL SULFATE

250 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

HEXYLENE GLYCOL

300 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

Reproductivity

HEXYLENE GLYCOL

1000 mg/kg bw/d OECD 421

Result: NOEL

Species: Rat

GLYCERIN

2000 mg/kg bw/d, No effects on fertility

Result: NOAEL

Species: Rat

SODIUM LAURETH SULFATE

300 mg/kg bw/d OECD 416

Result: NOAEL

Species: Rat

Specific target organ toxicity - single exposure Not classified.**Specific target organ toxicity - repeated exposure** Not classified.

COCAMIDE MIPA

> 750 mg/kg bw/d OECD 407, Oral

Result: NOAEL

Species: Rat

Test Duration: 28 d

SODIUM LAURETH SULFATE

>= 225 mg/kg bw/d OECD 408

Result: NOAEL

Species: Rat

Test Duration: 90 d

HEXYLENE GLYCOL

450 mg/kg bw/d OECD 408, Oral

Result: NOAEL

Species: Rat

SODIUM LAURYL SULFATE

488 mg/kg bw/d OECD 408

Result: NOAEL

Species: Rat

Test Duration: 13 weeks

GLYCERIN

8000 mg/kg bw/d, Oral

Result: NOAEL

Species: Rat

Test Duration: 2 yr

Aspiration hazard Not an aspiration hazard.**12. Ecological information****Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | Species | Test Results |
|--------------------------------|---------|-------------------------------------------------------------------------------|
| COCAMIDE MIPA (CAS 68333-82-4) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Pseudokirchneriella subcapitata > 9.4 mg/l, 72 h OECD 201 |
| Crustacea | LC50 | Daphnia magna 3.7 mg/l, 48 h OECD 202 |
| Fish | LC50 | Fish 2.7 mg/l, 96 h QSAR |
| Other | EC50 | Activated sludge of a predominantly domestic sewage > 1000 mg/l, 3 h OECD 209 |
| GLYCERIN (CAS 56-81-5) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC0 | Scenedesmus quadricauda > 10000 mg/l, 192 h |
| Crustacea | EC50 | Daphnia magna 1955 mg/l, 48 h |
| Fish | LC50 | Oncorhynchus mykiss 54000 mg/l, 96 h |
| Other | NOEC | Pseudomonas putida > 10000 mg/l, 16 h |

| Components | Species | Test Results |
|-----------------------------------------------|---------|---------------------------------------------------------------|
| HEXYLENE GLYCOL (CAS 107-41-5) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Pseudokirchneriella subcapitata > 429 mg/l, 72 hours OECD 201 |
| Crustacea | EC50 | Daphnia magna 5410 mg/l, 48 hours OECD 202 |
| Fish | LC50 | Pimephales promelas 10700 mg/l, 96 hours OECD 203 |
| Other | NOEC | Pseudomonas aeruginosa 200 mg/l, 10 days |
| SODIUM LAURETH SULFATE (CAS 3088-31-1) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Desmodesmus subspicatus 27 mg/l, 72 h OECD 201 |
| Crustacea | EC50 | Daphnia magna 7.2 mg/l, 48 h OECD 202 |
| Fish | LC50 | Danio rerio 7.1 mg/l, 96 h OECD 203 |
| Other | EC50 | Pseudomonas putida > 10000 mg/l, 16 h DIN 38412 - 8 |
| <i>Chronic</i> | | |
| Crustacea | NOEC | Daphnia magna 0.27 mg/l, 21 d OECD 211 |
| Fish | NOEC | Oncorhynchus mykiss 0.14 mg/l, 28 d OECD 204 |
| SODIUM LAURYL SULFATE (CAS 85586-07-8) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Desmodesmus subspicatus > 20 mg/l, 72 h EU C.3 |
| Crustacea | EC50 | Daphnia magna 4.7 mg/l, 48 h |
| Fish | LC50 | Oncorhynchus mykiss 3.6 mg/l, 96 h OECD 203 |
| Other | EC50 | Pseudomonas putida 1083 mg/l, 16 h DIN 38412 |
| <i>Chronic</i> | | |
| Algae | NOEC | Desmodesmus subspicatus 0.6 mg/l, 72 h EU C.3 |
| Crustacea | NOEC | Daphnia magna 0.508 mg/l, 21 d |
| Fish | NOEC | Pimephales promelas 0.11 - 0.35 mg/l, 34 d OECD 210 |

* Estimates for product may be based on additional component data not shown.

Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

| | |
|------------------------|---------------------------------------------------------------------------|
| COCAMIDE MIPA | 74 % ISO 14593 Result: Readily Biodegradable Test Duration: 28 d |
| GLYCERIN | OECD 301 Result: Readily Biodegradable |
| HEXYLENE GLYCOL | 81 % OECD 301 F Result: Readily biodegradable Test Duration: 28 d |
| SODIUM LAURETH SULFATE | 100 % EU C.4-A Result: Readily Biodegradable Test Duration: 28 d |
| SODIUM LAURYL SULFATE | 75.7 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d |

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

| | |
|------------------------|----------------|
| COCAMIDE MIPA | 3.77 |
| GLYCERIN | -1.76 |
| SODIUM LAURETH SULFATE | 0.3 OECD 123 |
| SODIUM LAURYL SULFATE | -2.42 OECD 107 |

Bioconcentration factor (BCF)

COCAMIDE MIPA

143

Bioaccumulation

COCAMIDE MIPA

Result: Bioaccumulation is unlikely.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations**Disposal instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

Not regulated.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information**DOT****FINISHED GOODS**

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

IATA**FINISHED GOODS**

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

IMDG**FINISHED GOODS**

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

15. Regulatory information**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

GLYCERIN (CAS 56-81-5)

Other Flavoring Substances with OSHA PEL's

16. Other information, including date of preparation or last revision**Issue date** 04-01-2019**Version #** 01**NFPA ratings** Health: 3
Flammability: 1
Instability: 0**Disclaimer** The information provided in this 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.