

# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : RHENOGRAN ETU-80

Product code : 05425581

#### Manufacturer or supplier's details

Supplier : 朗盛香港有限公司  
港島東 英皇道 979 號 太古坊  
康橋大廈 35 樓 3503-3504 室, 香港

Telephone : +85235268888

E-mail address of person responsible for the SDS : lxs-sds-china@lanxess.com

Emergency telephone number : 0049-214-30-99300 (German)

Supplier : LANXESS Hong Kong Limited  
Suites 3503-3504, 35/F Cambridge House  
TaiKoo Place, 979 King's Road Island East, Hong Kong, Hong Kong

Telephone : +85235268888

E-mail address of person responsible for the SDS : lxs-sds-china@lanxess.com

Emergency telephone : 0049-214-30-99300 (German)

#### Recommended use of the chemical and restrictions on use

Recommended use : Accelerator

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 4

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

Specific target organ toxicity - repeated exposure : Category 1 (Thyroid)

Short-term (acute) aquatic hazard : Category 3

# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

### GHS label elements

- Hazard pictograms :
- Signal word : Danger
- Hazard statements : H302 Harmful if swallowed.  
H351 Suspected of causing cancer.  
H360D May damage the unborn child.  
H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure.  
H402 Harmful to aquatic life.
- Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
- Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- Storage:**  
P405 Store locked up.
- Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
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# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

ethylene thiourea	96-45-7	>= 70 - < 90
White mineral oil (petroleum)	8042-47-5	>= 1 - < 10
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified	64742-54-7	>= 1 - < 10

### 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.  
Take off contaminated clothing and shoes immediately.  
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
Suspected of causing cancer.  
May damage the unborn child.  
Causes damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician : No special measures required.

### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
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### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
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### 7. HANDLING AND STORAGE

#### Handling

- Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

#### Storage

- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and
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**SAFETY DATA SHEET**  
**RHENOGRAN ETU-80**



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	OEL-TWA (Mist)	5 mg/m3	HK OEL
	Further information: As sampled by method that does not collect vapour			
		OEL-STEL (Mist)	10 mg/m3	HK OEL
	Further information: As sampled by method that does not collect vapour			
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified	64742-54-7	OEL-TWA (Mist)	5 mg/m3	HK OEL
	Further information: As sampled by method that does not collect vapour			
		OEL-STEL (Mist)	10 mg/m3	HK OEL
	Further information: As sampled by method that does not collect vapour			
		TWA (Inhalable fraction)	5 mg/m3	ACGIH

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

**Personal protective equipment**

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
Dust safety masks are recommended when the dust concentration is more than 10 mg/m3.

Hand protection  
Material : Nitrile rubber - NBR  
Wearing time : < 60 min

# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin and body protection : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granular

Colour : beige

Odour : slight

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.28 g/cm<sup>3</sup> (20 °C)

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# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-octanol/water : No data available

Ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Molecular weight : No data available

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### 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Dust may form explosive mixture in air.

Conditions to avoid : No data available

Incompatible materials : No specific data.

Hazardous decomposition products : No hazardous decomposition products are known.

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: 675.84 mg/kg  
Method: Calculation method

##### Components:

##### **ethylene thiourea:**

Acute oral toxicity : LD50 (Rat): 545 mg/kg  
LD50 (Rat): 900 mg/kg

---

# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

### **White mineral oil (petroleum):**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

### **Skin corrosion/irritation**

#### **Components:**

##### **ethylene thiourea:**

Result: No skin irritation

##### **White mineral oil (petroleum):**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

##### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified:**

Result: No skin irritation

### **Serious eye damage/eye irritation**

#### **Components:**

##### **ethylene thiourea:**



**SAFETY DATA SHEET**  
**RHENOGRAN ETU-80**



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

Result: No eye irritation

**White mineral oil (petroleum):**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: No eye irritation

**Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified:**

Result: No eye irritation

**Respiratory or skin sensitisation**

**Components:**

**White mineral oil (petroleum):**

Exposure routes: Skin contact  
Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.

**Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified:**

Exposure routes: Skin contact  
Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

**Components:**

**White mineral oil (petroleum):**

Genotoxicity in vitro : Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

**Carcinogenicity**

**Components:**

**ethylene thiourea:**

Carcinogenicity - Assessment : Limited evidence of a carcinogenic effect.

**Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified:**

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

### Reproductive toxicity

#### Components:

##### **ethylene thiourea:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.

##### **White mineral oil (petroleum):**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: > 4350 milligram per kilogram  
Symptoms: No effect level.  
Method: OECD Test Guideline 415

Effects on foetal development : Species: Rat, female  
Application Route: Oral  
Dose: > 4350 milligram per kilogram  
Duration of Single Treatment: 19 d  
Result: No teratogenic potential

### STOT - repeated exposure

#### Components:

##### **ethylene thiourea:**

Target Organs: Thyroid  
Assessment: Causes damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

##### **White mineral oil (petroleum):**

Species: Rat, male and female  
NOAEL: 1,800 mg/kg  
Application Route: Oral  
Exposure time: 90 d  
Dose: 1800 mg/kg  
Method: OECD Test Guideline 408  
Remarks: Chronic toxicity

##### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified:**

Species: Rabbit  
NOAEL: 200 mg/kg  
Application Route: Skin contact  
Exposure time: 28 d  
Dose: 200 mg/kg  
Remarks: Chronic toxicity

**SAFETY DATA SHEET**  
**RHENOGRAN ETU-80**



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

Species: Rat  
NOAEL: 0.21 mg/l  
Application Route: Inhalation  
Exposure time: 28 d  
Dose: 0,21 mg/l  
Remarks: Chronic toxicity

**Further information**

**Product:**

Remarks: No data available

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**ethylene thiourea:**

- Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 7,500 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 26.4 mg/l  
Exposure time: 48 h
- Toxicity to algae : EC50 (Chlorella pyrenoidosa (aglae)): 6,600 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 3.2 mg/l  
Exposure time: 21 Days  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

**White mineral oil (petroleum):**

- Toxicity to fish : No observed adverse effect level (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Fresh water
- Toxicity to algae : NOELR (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
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# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : No observed adverse effect level: > 1,000 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 5,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 ( Desmodesmus subspicatus (green algae)): > 1,000 mg/l  
Exposure time: 96 h

### **Persistence and degradability**

#### **Components:**

##### **ethylene thiourea:**

Biodegradability : Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **White mineral oil (petroleum):**

Biodegradability : aerobic  
Concentration: 44 mg/l  
Result: Inherently biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

##### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -unspecified:**

Biodegradability : Result: Inherently biodegradable.

### **Bioaccumulative potential**

#### **Components:**

##### **ethylene thiourea:**

Partition coefficient: n-octanol/water : log Pow: -0.67

##### **White mineral oil (petroleum):**

Partition coefficient: n- : log Pow: > 6

# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

octanol/water

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## 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.

**Hazard statements** : Not dangerous cargo.  
Keep separated from foodstuffs.

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## 15. REGULATORY INFORMATION

### National regulatory information

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

International Chemical Weapons Convention (CWC) : Not applicable

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# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version 1.1      Revision Date: 2019/01/22      SDS Number: 103000011116      Date of last issue: 2018/12/05  
Country / Language: HK / 6N

---

### Schedules of Toxic Chemicals and Precursors

Hong Kong. Control of Chemicals Ordinance : Neither banned nor restricted

Hong Kong. Chemical Weapons (Convention) Ordinance (Cap. 578) (Schedule 1 Chemicals) : Neither banned nor restricted

Hong Kong. Chemical Weapons (Convention) Ordinance (Cap. 578) (Schedule 2 Chemicals) : Neither banned nor restricted

Hong Kong. Chemical Weapons (Convention) Ordinance (Cap. 578) (Schedule 3 Chemicals) : Neither banned nor restricted

Further information : Dangerous Goods Ordinance (Cap295)  
Factories and Industrial Undertaking Ordinance (Cap59),  
F&IU (Dangerous Substances) Regulations  
Waste Disposal Ordinance Waster Disposal (Chemical Waste) (General) Regulations (Cap354)  
Air Pollution Control Ordinance Air Pollution (Volatile Organic Compounds) Regulation (Cap311)  
Code of Practice on Control of Air Impurities (Chemical Substance) in the Workplace

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## 16. OTHER INFORMATION

### Full text of other abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

HK OEL : Code of Practice on Control of Air Impurities (Chemical Substances) in the Workplace

ACGIH / TWA : 8-hour, time-weighted average

HK OEL / OEL-TWA : Time weighted Average

HK OEL / OEL-STEL : Short-Term Exposure Limit

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

# SAFETY DATA SHEET

## RHENOGRAN ETU-80



Version	Revision Date:	SDS Number:	Date of last issue: 2018/12/05
1.1	2019/01/22	103000011116	Country / Language: HK / 6N

---

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.