

**SAFETY DATA SHEET**

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

**COSMOCIL™ CQ**

Version 1.6

Revision Date 2021.03.11

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**SECTION 1. IDENTIFICATION**

Product name : COSMOCIL™ CQ  
Synonyms : non EU/CLP-version

**Manufacturer or supplier's details**

Company : Lonza, LLC  
412 Mount Kemble Avenue, Suite 200S  
Morristown, NJ 07960  
USA

Telephone : 1-201-316-9200  
E-mail address : sds-info@lonza.com

Emergency telephone number : For incidents only (spill, leak, fire, exposure, or accident), call  
CHEMTREC at  
1-800-424-9300 (inside North America) [CCN 864796]  
1-703-741-5970 (outside North America) [CCN 864796]  
  
+41 61 313 94 94 (24h )

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

Recommended use : Cosmetic additive

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

Acute toxicity (Inhalation) : Category 4  
Eye irritation : Category 2A  
Skin sensitisation : Sub-category 1B  
Specific target organ toxicity -  
repeated exposure (Inhalation) : Category 1  
Short-term (acute) aquatic hazard : Category 1  
Long-term (chronic) aquatic hazard : Category 1

**GHS label elements**

Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

## COSMOCIL™ CQ

H332 Harmful if inhaled.  
 H372 Causes damage to organs through prolonged or repeated exposure if inhaled.  
 H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

**Prevention:**  
 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.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
 P302 + P352 IF ON SKIN: Wash with plenty of water.  
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P314 Get medical advice/ attention if you feel unwell.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.  
**Storage:**  
 P402 + P404 Store in a dry place. Store in a closed container.  
 P410 + P403 Protect from sunlight. Store in a well-ventilated place.  
**Disposal:**  
 P501 Dispose of contents/container in accordance with local regulation.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
 Chemical nature : Aqueous solution

### Hazardous components

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
Polyaminopropyl biguanide	32289-58-0	>= 20 - < 25

## SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.  
 Consult a physician after significant exposure.  
 If unconscious, place in recovery position and seek medical advice.  
 If breathing is irregular or stopped, administer artificial respiration.

## COSMOCIL™ CQ

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	tion. Keep respiratory tract clear.
In case of skin contact	: After contact with skin, wash immediately with plenty of soap and water. If on clothes, remove clothes. In the case of skin irritation or allergic reactions see a physician.
In case of eye contact	: Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: No information available.
Notes to physician	: Treat symptomatically.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Alcohol-resistant foam Dry chemical
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Heating or fire can release toxic gas. Do not allow run-off from fire fighting to enter drains or water courses.
Further information	: Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Ensure adequate ventilation. Use respirator when performing operations involving potential exposure to vapour of the product.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	: 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

## COSMOCIL™ CQ

/ national regulations (see section 13).

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed.  
Keep in a well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.  
To maintain product quality, do not store in heat or direct sunlight.
- Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Polyaminopropyl biguanide	32289-58-0	TWA	0.012 mg/m3	LIGEL

#### Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.  
Respirator with ABEK filter.  
  
Respirator with a vapour filter (EN 141)
- Hand protection
- Material : Nitrile rubber
- Remarks : Wear protective gloves. Break through time : > 480 min
- Eye protection : Safety glasses with side-shields conforming to EN166  
Wear face-shield and protective suit for abnormal processing problems.

## COSMOCIL™ CQ

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Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	no data available
pH	:	5 - 5.5 Concentration: 10 g/l (as aqueous solution)
Melting point/range	:	ca. 32 °F / 0 °C
Boiling point/boiling range	:	ca. 216 °F / 102 °C
Flash point	:	does not flash
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Flammability (liquids)	:	no data available
Self-ignition	:	no data available
Upper explosion 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	:	ca. 1.04 g/cm <sup>3</sup> (77 °F / 25 °C)
Bulk density	:	no data available
Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available

## COSMOCIL™ CQ

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Viscosity, dynamic	:	ca. 5 mPa.s (77 °F / 25 °C)
Viscosity, kinematic	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available
Minimum ignition energy	:	no data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	Heat
Incompatible materials	:	Strong acids and strong bases Oxidizing agents
Hazardous decomposition products	:	No decomposition if used as directed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Acute oral toxicity	:	LD50 (Rat, female): 2,504 mg/kg Remarks: Ingestion may cause irritation to mucous membranes.  LD50 (Rat, male): 2,727 mg/kg
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Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Assessment: Not classified due to inconclusive data.
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#### Skin corrosion/irritation

Remarks: no data available

#### Serious eye damage/eye irritation

Species: Rabbit  
Result: Eye irritation

#### Respiratory or skin sensitisation

Remarks: no data available

#### Germ cell mutagenicity

Genotoxicity in vitro	:	Remarks: no data available
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## COSMOCIL™ CQ

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### Carcinogenicity

Remarks: no data available

### 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.

### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### NTP

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

### 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.

### Reproductive toxicity

Effects on fertility : Remarks: no data available

### STOT - single exposure

Remarks: no data available

### STOT - repeated exposure

Target Organs: Respiratory Tract

Assessment: Causes damage to organs through prolonged or repeated exposure if inhaled.

### Aspiration toxicity

No aspiration toxicity classification

### Further information

Remarks: no data available

### The following toxicological data refer to:

Polyhexamethylene biguanide hydrochloride(CAS-No.: 32289-58-0)

### Acute toxicity

Acute oral toxicity : LD50 (Rat, female): 501 mg/kg  
Remarks: Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

LD50 (Rat, male): 549 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.37 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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

### Skin corrosion/irritation

Remarks: no data available

## COSMOCIL™ CQ

### STOT - repeated exposure

Target Organs: Respiratory Tract

Assessment: Causes damage to organs through prolonged or repeated exposure if inhaled.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxicity to fish : Remarks: no data available

Toxicity to microorganisms : IC10 (Bacteria): 40 mg/l  
Test Type: Respiration inhibition

### Persistence and degradability

no data available

### Bioaccumulative potential

Bioaccumulation : Remarks: no data available

### Components:

#### Polyaminopropyl biguanide:

Partition coefficient: n-octanol/water log Pow: -2.3 (25 °C)

### Mobility in soil

Distribution among environmental compartments : Remarks: no data available

### Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

### The following ecotoxicological data refer to:

Polyhexamethylene biguanide hydrochloride(CAS-No.: 32289-58-0)

### Ecotoxicity

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): = 0.026 mg/l  
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.11 mg/l  
Exposure time: 96 h

NOEC (Fish): = 0.010 mg/l

LOEC (Fish): > 0.010 mg/l

Toxicity to daphnia and other aquat- : EC50 (Daphnia magna (Water flea)): 0.04 mg/l



## COSMOCIL™ CQ

ic invertebrates	Exposure time: 48 h
	EC50 (Daphnia magna (Water flea)): 0.09 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (green algae): 0.49 - 0.87 mg/l Exposure time: 96 h
M-Factor (Acute aquatic toxicity)	: 10
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0.0084 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	: 10
Toxicity to microorganisms	: Remarks: In an assessment of the effect of PHMB on nitrification of activated sludge micro-organisms the 4hr EC50 was 38 mg/l and the NOEC = 12 mg/l.
<b>Persistence and degradability</b>	
no data available	
<b>Bioaccumulative potential</b>	
Bioaccumulation	: Remarks: Bioaccumulation is unlikely.
<b>Mobility in soil</b>	
no data available	
<b>Other adverse effects</b>	
Results of PBT and vPvB assessment	: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues	: Dispose of contents/container in accordance with local regulation. Contact waste disposal services. Do not dispose of waste into sewer. The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	: Dispose of as unused product. Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

## COSMOCIL™ CQ

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### DOT

**UN number** : 3082  
**Proper shipping name** : Environmentally hazardous substance, liquid, n.o.s.  
 (Polyhexamethylene biguanide hydrochloride)  
**Transport hazard class** : 9  
**Packing group** : III  
 Labels : 9  
 Emergency Response Guidebook : 171  
 Number  
**Environmental hazards** : yes

### TDG

**UN number** : 3082  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
 LIQUID, N.O.S.  
 (Polyhexamethylene biguanide hydrochloride)  
**Transport hazard class** : 9  
**Packing group** : III  
 Labels : 9  
**Environmental hazards** : yes

### IATA

**UN number** : 3082  
**Proper shipping name** : Environmentally hazardous substance, liquid, n.o.s.  
 (Polyhexamethylene biguanide hydrochloride)  
**Transport hazard class** : 9  
**Packing group** : III  
 Labels : 9MI  
**Environmental hazards** : yes

### IMDG

**UN number** : 3082  
**Proper shipping name** : Environmentally hazardous substance, liquid, n.o.s.  
 (Polyhexamethylene biguanide hydrochloride)  
**Transport hazard class** : 9  
**Packing group** : III  
 Labels : 9  
 EmS Number 1 : F-A  
 EmS Number 2 : S-F  
**Environmental hazards** : Marine pollutant: yes

### ADR

**UN number** : 3082  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
 LIQUID, N.O.S.  
 (Polyhexamethylene biguanide hydrochloride)  
**Transport hazard class** : 9  
**Packing group** : III  
 Classification Code : M6  
 Hazard Identification Number : 90  
 Labels : 9  
**Environmental hazards** : yes

## COSMOCIL™ CQ

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### RID

**UN number** : 3082  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
 LIQUID, N.O.S.  
 (Polyhexamethylene biguanide hydrochloride)  
**Transport hazard class** : 9  
**Packing group** : III  
 Classification Code : M6  
 Hazard Identification Number : 90  
 Labels : 9  
**Environmental hazards** : yes

**Special precautions for user** :  
 49CFR (DOT) Material is not regulated for ground transportation within the US if shipped in non-bulk packages. Material is not regulated as a marine pollutant for ground transportation within the US if shipped in non-bulk packages (reference 49CFR 171.4(c)).

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable

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### SECTION 15. REGULATORY INFORMATION

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

##### CERCLA Reportable Quantity

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

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

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

##### SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

##### 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.

##### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

## COSMOCIL™ CQ

### Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Pennsylvania Right To Know

Components	CAS-No.
Water	7732-18-5
Polyaminopropyl biguanide	32289-58-0

### California Prop. 65

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

### Canadian lists

#### NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

LIGEL : Lonza Internal Guidance Exposure Level

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

**COSMOCIL™ CQ**

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(EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

COSMOCIL is a trade mark of ARCH UK BIOCIDES LTD

This SDS reflects Lonza data contradicting Annex VI to CLP (REGULATION (EC) No 1272/2008) and is not applicable where the Annex VI to CLP is legally binding.

Arch is a wholly-owned subsidiary of Lonza and continues to operate as Arch Chemicals, Inc.

Revision Date : 2021.03.11

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.

Date format : yyyy/mm/dd

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