

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name TECNOFLON® FOR 7353

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance/Mixture**

- Automotive industry
- Chemical industry
- Electrical industry
- Electronic industry
- Oil & gas industry
- Pharmaceutical
- Water treatment
- For industrial use only

1.3 Details of the supplier of the safety data sheet**Company**

Syensqo (Shanghai) International Trading Co., Ltd.
3966, JINDU RD, XINZHUANG INDUSTRIAL ZONE, MINHANG DISTRICT, SHANGHAI, CHINA 201108
Tel: +86 21 2350 1000

E-mail address

sds.syensqo@syensqo.com

1.4 Emergency telephone number

400 120 6011 (toll-free, access from China only)
NRCC
CHINA (DOMESTIC ONLY): +86 532 8388 9090 (Qingdao)
MULTI LINGUAL EMERGENCY NUMBER (24/7)
Europe/Latin America/Africa: +44 1235 239 670 (UK)
Middle East/Africa speaking Arabic: +44 1235 239 671 (UK)
Asia Pacific : +65 3158 1074 (Singapore)
China : 400 120 6011 (toll-free, access from China only)
North America : +1 800 424 9300

SECTION 2: Hazards identification**2.1 Emergency overview**

<u>Appearance</u>	<u>Form:</u>	sheets
	<u>Physical state:</u>	solid
	<u>Colour:</u>	white slightly coloured
	<u>Odour</u>	odourless
Harmful to aquatic life with long lasting effects.		

2.2 Classification of the substance or mixture**GHS Classification and Labeling: Follow GB 15258 and GB 30000 series standard**

Short-term (acute) aquatic hazard, Category 3
Long-term (chronic) aquatic hazard, Category 3

H402: Harmful to aquatic life.
H412: Harmful to aquatic life with long lasting effects.



2.3 Label elements

GHS Classification and Labeling: Follow GB 15258 and GB 30000 series standard

Hazard statements

- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

General

- None

Prevention

- P273 Avoid release to the environment.

Response

- None

Storage

- None

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

2.4 Physical and chemical hazards

- Not classified based on available information.

2.5 Health hazards

- Not classified based on available information.

2.6 Environmental hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

2.7 Other hazards which do not result in classification

- Thermal decomposition can lead to release of toxic and corrosive gases.

SECTION 3: Composition/information on ingredients

3.1 Substance

- Not applicable, this product is a mixture.

3.2 Mixture

- Chemical nature Fluoroelastomer with additives



Information on Components and Impurities

Chemical name	CAS-No.	Identification number	GHS Classification	Concentration [%]
1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene	9011-17-0	Not applicable	Not classified	> 97
Mixture of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)		Not applicable	Reproductive toxicity, Category 1B; H360 Specific target organ toxicity - repeated exposure, Category 2; H373 Short-term (acute) aquatic hazard, Category 1; H400 Long-term (chronic) aquatic hazard, Category 1; H410 M-Factor(Acute) : 1 M-Factor(Chronic) : 10	< 3

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****In case of inhalation*****Exposure to decomposition products***

- Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
- Oxygen or artificial respiration if needed.
- Symptoms of poisoning may develop many hours after exposure.
- Keep under medical supervision for at least 48 hours.

In case of skin contact***Exposure to decomposition products***

- Wash off with soap and water.
- Immediately apply calcium gluconate gel 2.5% and massage into the "affected area using rubber gloves; continue to massage while repeatedly" applying gel until 15 minutes after pain is relieved.
- Consult a physician.

In case of eye contact***Exposure to decomposition products***

- Rinse immediately with plenty of water, also under the eyelids.
- Remove contact lenses.

In case of ingestion

- Not applicable

4.2 Most important symptoms and effects, both acute and delayed**In case of inhalation****Effects**

- The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

Symptoms

Exposure to decomposition products

- Headache
- Shortness of breath
- Cough

In case of skin contact**Effects**

- No adverse effects are normally expected.

Symptoms**Exposure to decomposition products**

- Irritation
- Redness
- Burn

In case of eye contact**Effects**

- No adverse effects are normally expected.

Symptoms**Exposure to decomposition products**

- Irritation
- Redness
- Burn

In case of ingestion**Effects**

- negligible

4.3 Indication of any immediate medical attention and special treatment needed**Notes to physician**

- None

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

- Water
- powder
- Foam
- Dry chemical
- Carbon dioxide (CO₂)

Unsuitable extinguishing media

- None

5.2 Special hazards arising from the substance or mixture**Specific hazards during firefighting**

- The product is not flammable.
- Not explosive
- Hazardous decomposition products formed under fire conditions.



Hazardous combustion products:

- Gaseous hydrogen fluoride (HF).
- Fluorophosgene
- Fluorinated olefins
- Other hazardous decomposition products may be formed.

5.3 Advice for firefighters**Special protective equipment for firefighters**

- Wear self-contained breathing apparatus and protective suit.
- When intervention in close proximity wear acid resistant over suit.

Further information

- Evacuate personnel to safe areas.
- Approach from upwind.
- Protect intervention team with a water spray as they approach the fire.
- Keep containers and surroundings cool with water spray.
- Keep product and empty container away from heat and sources of ignition.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****Advice for non-emergency personnel**

- Prevent further leakage or spillage if safe to do so.

Advice for emergency responders

- Ensure adequate ventilation.
- Keep away from open flames, hot surfaces and sources of ignition.

6.2 Environmental precautions

- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

- Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4 Reference to other sections

- Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Ensure adequate ventilation.
- Keep away from heat and sources of ignition.
- Use personal protective equipment.
- To avoid thermal decomposition, do not overheat.
- Take measures to prevent the build up of electrostatic charge.
- Clean and dry piping circuits and equipment before any operations.
- Ensure all equipment is electrically grounded before beginning transfer operations.



- For additional information, consult the current edition of The Guide to the Safe Handling of Fluoropolymers published by the Society of Plastics Industry, Inc. (SPI) Fluoropolymer Division.

Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

- Keep in properly labelled containers.
- Keep away from heat and sources of ignition.
- Keep away from combustible material.
- Keep away from incompatible products
- Provide tight electrical equipment well protected against corrosion.
- Refer to protective measures listed in sections 7 and 8.

Packaging material

Suitable material

- Polyethylene

7.3 Specific end use(s)

- Contact your supplier for additional information

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Contains no substances with occupational exposure limit values above their regulatory reporting threshold.



Threshold limit values of by-products from thermal decomposition:**Components with national occupational exposure limits**

Components	Value type	Value	Basis
Hydrofluoric acid	MAC	2 mg/m ³	Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
	Expressed as :Fluorine		
Carbonyl fluoride	PC-TWA	5 mg/m ³	Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
Carbonyl fluoride	PC-STEL	10 mg/m ³	Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

Components with other occupational exposure limits

Components	Value type	Value	Basis
Hydrofluoric acid	TWA	0.5 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Danger of cutaneous absorption Expressed as :Fluorine		
Hydrofluoric acid	C	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Danger of cutaneous absorption Expressed as :Fluorine		
Carbonyl fluoride	TWA	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
Carbonyl fluoride	STEL	5 ppm	USA. ACGIH Threshold Limit Values (TLV)

8.2 Exposure controls**Control measures****Engineering measures**

- Provide local ventilation appropriate to the product decomposition risk (see section 10).
- Refer to protective measures listed in sections 7 and 8.
- Apply technical measures to comply with the occupational exposure limits.

Individual protection measures**Respiratory protection**

- In case of decomposition (see section 10), use an air breathing apparatus with face mask.
- Use only respiratory protection that conforms to international/ national standards.

Hand protection

- Wear protective gloves.

Suitable material

- Nitrile rubber



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- PVC
- Neoprene gloves
- butyl-rubber

- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection

- Safety goggles

Skin and body protection

- Wear work overall and safety shoes.

Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

- Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

<u>Physical state</u>	solid
<u>Form</u>	sheets
<u>Colour</u>	white slightly coloured
<u>Odour</u>	odourless
<u>Odour Threshold</u>	Not applicable
<u>Melting point/freezing point</u>	<u>Melting point/ range:</u> Not applicable
<u>Initial boiling point and boiling range</u>	<u>Boiling point/boiling range:</u> Not applicable
<u>Flammability (solid, gas)</u>	The product is not flammable.
<u>Flammability (liquids)</u>	Not applicable
<u>Flammability/Explosive limit</u>	No data available
<u>Flash point</u>	The product is not flammable.
<u>Auto-ignition temperature</u>	No data available
<u>Decomposition temperature</u>	> 250 °C
<u>pH</u>	Not applicable
<u>Viscosity</u>	No data available
<u>Solubility</u>	<u>Water solubility:</u> insoluble



	<u>Solubility in other solvents:</u>
	Esters: soluble
	Ketones: soluble
<u>Partition coefficient: n-octanol/water</u>	No data available
<u>Vapour pressure</u>	Not applicable
<u>Density</u>	1.79 - 1.83 g/cm ³
<u>Relative density</u>	No data available
<u>Relative vapor density</u>	Not applicable
<u>Particle characteristics</u>	<u>Particle size:</u> Not applicable
<u>Evaporation rate (Butylacetate = 1)</u>	Not applicable
9.2 Other information	
<u>Oxidizing properties</u>	Not considered as oxidizing
<u>Self-ignition</u>	Not applicable
<u>Impact sensitivity</u>	Not explosive

SECTION 10: Stability and reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

- To avoid thermal decomposition, do not overheat.
- Keep away from flames and sparks.

10.5 Incompatible materials

- Alkali metals (molten form)

10.6 Hazardous decomposition products

- Gaseous hydrogen fluoride (HF).
- Fluorophosgene
- Fluorinated olefins
- The release of other hazardous decomposition products is possible.



SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

Not classified as hazardous for acute oral toxicity according to GHS.
According to the available data on the components
According to the classification criteria for mixtures.
Unpublished reports
Published data

Acute inhalation toxicity

No data available

Acute dermal toxicity

No data available

Acute toxicity (other routes of administration)

No data available

Skin corrosion/irritation

Not classified as irritating to skin.
According to the available data on the components
According to the classification criteria for mixtures.
Unpublished reports
Published data

Serious eye damage/eye irritation

Not classified as irritating to eyes
According to the available data on the components
According to the classification criteria for mixtures.
Unpublished reports
Published data

Respiratory or skin sensitisation

Does not cause skin sensitisation.
According to the available data on the components
According to the classification criteria for mixtures.
Unpublished reports
Published data

Mutagenicity**Genotoxicity in vitro**

Product is not considered to be genotoxic.
According to the available data on the components
According to the classification criteria for mixtures.
Unpublished reports
Published data

Genotoxicity in vivo

No data available

Carcinogenicity

No data available

Toxicity for reproduction and development**Toxicity to reproduction/Fertility**

The mixture is not considered hazardous as specific extraction experiments showed that components hazardous to health are not released from the polymeric matrix in quantities sufficient to exert adverse effects., Unpublished internal reports

Developmental Toxicity/Teratogenicity

The mixture is not considered hazardous as specific extraction experiments showed that components hazardous to health are not released from the polymeric matrix in quantities sufficient to exert adverse effects., Unpublished internal reports

STOT**STOT - single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.
According to the classification criteria for mixtures., Unpublished reports,
Published data

STOT - repeated exposure

The mixture is not considered hazardous as specific extraction experiments showed that components hazardous to health are not released from the polymeric matrix in quantities sufficient to exert adverse effects., Unpublished internal reports

Experience with human exposure

The product itself has not been tested.
No data available



CMR effects**Mutagenicity**
Reproductive toxicity
Aspiration toxicity
Further information

Weight of evidence does not support classification as a germ cell mutagen.
 Weight of evidence does not support classification for reproductive toxicity
 Not applicable
 Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.
 Thermal decomposition can lead to release of toxic and corrosive gases.
 The exposure to decomposition products causes severe irritation of eyes, skin and mucous membranes.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment**

Acute toxicity to fish	The product itself has not been tested.
Acute toxicity to daphnia and other aquatic invertebrates	The product itself has not been tested.
Toxicity to aquatic plants	The product itself has not been tested.
Toxicity to microorganisms	The product itself has not been tested.
Chronic toxicity to fish	No data available
Chronic toxicity to daphnia and other aquatic invertebrates	No data available

M-Factor

Mixture of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

Acute aquatic toxicity = 1
 Chronic aquatic toxicity = 10
 (according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability**Abiotic degradation**

Stability in water Conclusion is not possible for a mixture as a whole.

Physical- and photo-chemical elimination

No data available

Biodegradation

Biodegradability As (bio)degradability is not relevant for mixtures, all the components of the mixture were assessed individually (rapid degradability assessment available below).

Degradability assessment

All or most of the components are considered to be not rapidly degradable in the environment
 Unpublished reports
 Published data

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

Conclusion is not possible for a mixture as a whole.

Bioconcentration factor (BCF)

No data available

12.4 Mobility in soil**Adsorption potential (Koc)**

Conclusion is not possible for a mixture as a whole.

Known distribution to environmental compartments

No data available

12.5 Results of PBT and vPvB assessment

Product does not contain substances which are very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher.

12.6 Other adverse effects**Ecotoxicity assessment****Short-term (acute) aquatic hazard**

According to available data on components and analytical monitoring data obtained in release experiments.
Harmful to aquatic life.
Expert judgement
Unpublished internal reports

Long-term (chronic) aquatic hazard

According to available data on components and analytical monitoring data obtained in release experiments.
Harmful to aquatic life with long lasting effects.
Expert judgement
Unpublished internal reports

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

- Can be incinerated, when in compliance with local regulations.
- The incinerator must be equipped with a system for the neutralisation or recovery of HF.
- Dispose of in accordance with local regulations.

Advice on cleaning and disposal of packaging

- Empty containers can be landfilled, when in accordance with the local regulations.

SECTION 14: Transport information**CN DG**

not regulated

IMDG

not regulated

IATA

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.



SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Following last version of regulations are applicable for the chemical classification, SDS and label:**

- Specification for classification and labelling of chemicals, GB 30000 series standard
- General rules for preparation of precautionary label for chemicals, GB 15258
- Safety data sheet for chemical products—Content and order of sections, GB/T 16483
- GB/T 17519 Guidance on the compilation of safety data sheet for chemical products
- Decree No. 591 of the State Council of the People's Republic of China: Regulations on the Control over Safety of Hazardous Chemicals
- List of dangerous goods GB 12268
- Classification and code of dangerous goods GB 6944

Other regulations

- Law on the Prevention and Control of Occupational Diseases

Notification status

Inventory Information	Status
United States TSCA Inventory	- Listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australian Inventory of Industrial Chemicals (AIIC)	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Japan. ISHL - Inventory of Chemical Substances	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- Listed on Inventory
Taiwan. Chemical Substance Inventory (TCSI)	- Listed on Inventory
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- When purchased from a Syensqo legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.



SECTION 16: Other information**Full text of H-Statements**

- H360: May damage fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H402: Harmful to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.

Key or legend to abbreviations and acronyms used in the safety data sheet

- C: Ceiling limit
- CN BEI: China. Biological Occupational Exposure Indices
- MAC: Maximum allowable concentration
- PC-STEL: Permissible concentration - short term exposure limit
- PC-TWA: Permissible concentration - time weighted average
- STEL: Short-term exposure limit
- TWA: 8-hour, time-weighted average
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Instructions for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- GHS/CLP/SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

Not all acronyms listed above are referenced in this SDS.

Further information

- Distribute new edition to clients

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. The information exclusively relates to the designated product in its unaltered state. Safety and health hazards may change if such product is used in combination with other materials or in any other manufacturing process. Users are responsible for compliance with all regulations linked to product related activities, and to use the products in accordance with technical instructions given by Syensqo, if any.

