

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

TRIGONOX 301-20PP

Version	Revision Date:	CN / EN	Date of last issue: 2021/06/17
3.0	2022/12/16		Date of first issue: 2016/05/04

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TRIGONOX 301-20PP

Manufacturer or supplier's details

Company : Nouryon Functional Chemicals B.V.

Address : Haaksbergweg 88
NL 1101 BZ Amsterdam
Netherlands

Telephone : +31889840367

Emergency telephone number : 24 hours:+31 57 06 79211, US-CHEMTREC:1-800-424-9300,
CA-CANUTEC:1-613-996-6666, JP: +81 (836) 74 8810, CN: 化
学事故应急咨询电话 : +86 532 8388 9090-:
Nouryon Emergency Response Centre: +31 570 679211
National Registration Centre of Chemicals (NRCC): +86 532
8388 9090

E-mail address : polymer.emeia@nouryon.com

Recommended use of the chemical and restrictions on use

Recommended use : Polymerization initiator

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: beads
Colour	: off-white
Odour	: mild

Causes mild skin irritation. May cause an allergic skin reaction.

GHS Classification

Organic peroxides	: Type G
Skin corrosion/irritation	: Category 3
Skin sensitisation	: Category 1


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GHS label elements

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H316 Causes mild skin irritation. H317 May cause an allergic skin reaction.
Precautionary statements	:	<p>Prevention: P261 Avoid breathing dust. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves.</p> <p>Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.</p> <p>Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.</p>

Physical and chemical hazards

Not classified based on available information.

Health hazards

Causes mild skin irritation. May cause an allergic skin reaction.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane	24748-23-0	8 -9
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	Not Assigned	7 -9
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	64742-48-9	3 -4

The following substances have multiple CAS-number

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics : 64742-47-8
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics : 90622-58-5

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash the skin immediately with soap and water.
If skin irritation persists, call a physician.

In case of eye contact : Rinse with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

Most important symptoms and effects, both acute and : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms

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delayed
are known.
Causes mild skin irritation.
May cause an allergic skin reaction.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
 - Specific hazards during firefighting : CAUTION: reignition may occur.
Supports combustion.
Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous decomposition products formed under fire conditions.
 - Hazardous combustion products : Fire will produce smoke containing hazardous combustion products (see section 10).
 - 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 : In the event of fire, wear self-contained breathing apparatus.
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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Wear respiratory protection.
Ensure adequate ventilation.
- Environmental precautions : Try to prevent the material from entering drains or water courses.
- Methods and materials for containment and cleaning up : Keep wetted with water.
Confinement must be avoided.
Pick up and arrange disposal without creating dust.
Collect in plastic container for disposal as hazardous waste.
Never return spills in original containers for re-use.

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Prevention of secondary hazards : Evacuate personnel to safe areas.
Only qualified personnel equipped with suitable protective equipment may intervene.
Prevent unauthorised persons entering the zone.

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion : Use explosion protected equipment.
Provide appropriate exhaust ventilation at places where dust is formed.
Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps).
Do not cut or weld on or near this container even when empty.

Advice on safe handling : For personal protection see section 8.
Avoid formation of respirable particles.
Do not breathe vapours/dust.
Avoid contact with skin.
Smoking, eating and drinking should be prohibited in the application area.

Avoidance of contact : Contact with the following incompatible materials will result in hazardous decomposition:
Acids and bases
Iron
Copper
Reducing agents
Heavy metals
Rust
Do not mix with peroxide accelerators, unless under controlled processing.
Use only stainless steel 316, PP, polyethylene or glass-lined equipment.
For queries regarding the suitability of other materials please contact the supplier.

Storage

Conditions for safe storage : Keep only in original container.
Store away from other materials.

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Further information on storage stability : Maximum storage temperature is for quality only.

Maximum storage temperature: : 40 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methyl acetate	79-20-9	PC-TWA	200 mg/m ³	CN OEL
		PC-STEL	500 mg/m ³	CN OEL
		TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
Ethyl acetate	141-78-6	PC-TWA	200 mg/m ³	CN OEL
		PC-STEL	300 mg/m ³	CN OEL
		TWA	400 ppm	ACGIH
Methyl ethyl ketone	78-93-3	PC-TWA	300 mg/m ³	CN OEL
		PC-STEL	600 mg/m ³	CN OEL
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
Carbon dioxide	124-38-9	PC-TWA	9,000 mg/m ³	CN OEL
		PC-STEL	18,000 mg/m ³	CN OEL
		TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH

Engineering measures : Explosion proof ventilation recommended.

Personal protective equipment

Respiratory protection : Handle in accordance with good industrial hygiene and safety practice.

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Eye/face protection	:	Tightly fitting safety goggles
Skin and body protection	:	Protective suit
Hand protection		
Material	:	Neoprene
Material	:	Nitrile rubber
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	beads
Colour	:	off-white
Odour	:	mild
Odour Threshold	:	No data available
pH	:	Not applicable
Melting point	:	Decomposes before melting.
Boiling point/boiling range	:	Decomposes below the boiling point.
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Decomposition products may be flammable.
Upper explosion limit / Upper	:	No data available

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flammability limit

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : < 1 hPa (20 °C)

Relative vapour density : Not applicable

Relative density : No data available

Bulk density : 421 kg/m³ (20 °C)

Solubility(ies)

Water solubility : insoluble (20 °C)

Solubility in other solvents : No data available

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

Auto-ignition temperature : Test method not applicable

Decomposition temperature : SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.

Self-Accelerating decomposition temperature (SADT) : 90 °C

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Not classified as oxidising.

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Active Oxygen Content : 1.49 %

Organic peroxides : 8.2 %

10. STABILITY AND REACTIVITY

Reactivity : Stable under normal conditions.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : Contact with the following incompatible materials will result in hazardous decomposition:
 Acids and bases
 Iron
 Copper
 Reducing agents
 Heavy metals
 Rust
 Do not mix with peroxide accelerators, unless under controlled processing.
 Use only stainless steel 316, PP, polyethylene or glass-lined equipment.
 For queries regarding the suitability of other materials please contact the supplier.

Hazardous decomposition products : No decomposition if stored and applied as directed.

Hazardous decomposition products : Methyl acetate
 Methane
 Ethyl acetate
 Ethane
 Methyl ethyl ketone
 Carbon dioxide
 Carbon oxides

Thermal decomposition : SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in

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transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.

Self-Accelerating decomposition temperature (SADT) : 90 °C

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:

Acute oral toxicity : LD50: > 2,000 mg/kg

Acute dermal toxicity : LD50: > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

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

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

Skin corrosion/irritation

Causes mild skin irritation.

Components:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:

Result : Skin irritation

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

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Assessment : Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:

Result : Slightly irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

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STOT - repeated exposure

Not classified based on available information.

Components:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:

Exposure routes : Ingestion
 Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Not classified based on available information.

Components:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:

May be fatal if swallowed and enters airways.

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

May be fatal if swallowed and enters airways.

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : No further data available.

Remarks : No further data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.4 mg/l
 Exposure time: 96 h
 Test Type: semi-static test

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Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 2 mg/l
 Exposure time: 48 h
 Test Type: static test
 Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 1.4 mg/l
 Exposure time: 72 h
 Test Type: Growth inhibition
 Method: OECD Test Guideline 201
 Remarks: No toxicity at the limit of solubility

NOEC (Desmodesmus subspicatus (green algae)): > 1.4 mg/l
 Exposure time: 72 h
 Test Type: Growth inhibition
 Method: OECD Test Guideline 201
 Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 2.7 mg/l
 End point: reproduction rate
 Exposure time: 21 d
 Method: OECD Test Guideline 211
 GLP: yes
 Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms : NOEC (activated sludge): > 1,000 mg/l
 Exposure time: 3 h
 Test Type: Respiration inhibition
 Method: Domestic OECD Guideline 209

Persistence and degradability

Components:

3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperxonane:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

Components:

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Partition coefficient: n- : Remarks: No data available

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octanol/water

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : None known.

None known.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of contents/container in accordance with local regulation.

Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Due to the high risk of contamination recycling/recovery is not recommended.
Follow all warnings even after the container is emptied.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable

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Subsidiary risk : Not applicable
 Packing group : Not applicable
 Labels : Not applicable

IATA-DGR

UN/ID No. : UN 3104
 Proper shipping name : Organic peroxide type C, solid (Organic peroxide, solid, sample)
 (3,6,9-Triethyl-3,6,9-trimethyl-1,4,7-triperoxonane, 8.2%)
 Class : 5.2
 Packing group : Not assigned by regulation
 Labels : Organic Peroxides, Keep Away From Heat
 Packing instruction (cargo aircraft) : 570
 Packing instruction (passenger aircraft) : 570

IMDG-Code

UN number : Not applicable
 Proper shipping name : Not applicable
 Class : Not applicable
 Subsidiary risk : Not applicable
 Packing group : Not applicable
 Labels : Not applicable
 EmS Code : Not applicable
 Marine pollutant : Not applicable
 Remarks : (ILT/22-146042)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number : Not applicable
 Proper shipping name : Not applicable
 Class : Not applicable
 Subsidiary risk : Not applicable
 Packing group : Not applicable
 Labels : Not applicable

Special precautions for user

The transport classification(s) provided herein are for informational purposes only. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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15. REGULATORY INFORMATION

National regulatory information

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

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

16. OTHER INFORMATION

Revision Date : 2022/12/16

Further information

Other information : This data sheet contains changes from the previous version in section(s):
 Hazards identification
 Physical and chemical properties
 Transport information
 Regulatory information

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Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
 CN OEL : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

ACGIH / TWA : 8-hour, time-weighted average
 ACGIH / STEL : Short-term exposure limit
 CN OEL / PC-TWA : Permissible concentration - time weighted average
 CN OEL / PC-STEEL : Permissible concentration - short term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;

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vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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.

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