

SAFETY DATA SHEET

Creation Date 26-Apr-2011 Revision Date 25-Dec-2021 Revision Number 5

1. Identification

Product Name tert-Butyl peroxyacetate, 50% solution in aromatic free mineral spirit

Cat No.: AC349860000; AC349860100; AC349862500

Synonyms Trigonox^o4 F

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids
Organic peroxides
Acute Inhalation Toxicity - Vapors
Serious Eye Damage/Eye Irritation
Skin Sensitization
Germ Cell Mutagenicity
Aspiration Toxicity

Category 1
Category 1
Category 1
Category 1

Label Elements

Signal Word

Danger

Hazard Statements

Flammable liquid and vapor Heating may cause a fire

tert-Butyl peroxyacetate, 50% solution in aromatic free mineral spirit

Toxic if inhaled May be fatal if swallowed and enters airways May cause an allergic skin reaction Causes serious eye irritation



Precautionary Statements

Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep/Store away from clothing/ other combustible materials

Keep only in original container

Keep cool

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

Skin

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF ON SKIN: Wash with plenty of soap and water

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Store in a well-ventilated place. Keep cool

Protect from sunlight

Store away from other materials

Keep at temperatures between 10 °C and 30 °C.

Do not freeze

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
tert-Butyl peroxyacetate	107-71-1	50
Naphtha (petroleum), hydrotreated heavy	64742-48-9	50

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Immediate medical attention is required. Wash off immediately with plenty of water for at

least 15 minutes.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Risk of serious damage to the lungs (by

aspiration).

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting

occurs naturally, have victim lean forward.

Most important symptoms and

effects

Difficulty in breathing. May cause allergic skin reaction. . Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet,

dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam. Water mist may be used

to cool closed containers.

Unsuitable Extinguishing Media No information available

Flash Point 43 °C / 109.4 °F

Method - No information available

Autoignition Temperature 400 °C / 752 °F

Explosion Limits

Upper No data available
Lower No data available

Oxidizing Properties Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Oxidizer: Contact with combustible/organic material may cause fire. Vapors may travel to source of ignition and flash back. May ignite combustibles (wood paper, oil, clothing, etc.). Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Organic acids. Acetone.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NF	PA
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Health	Flammability	Instability	Physical hazards
3	3	3	OX

6. Accidental release measures

Personal Precautions

Use personal protective equipment as required. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not breathe dust/fume/gas/mist/vapors/spray. Remove all sources of ignition.

Environmental Precautions

See Section 12 for additional Ecological Information. Should not be released into the

environment.

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Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling

Wear personal protective equipment/face protection. Avoid contact with skin and eyes. Ensure adequate ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Do not subject to grinding/shock/friction. Keep away from clothing and other combustible materials. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Storage.

Keep in a dry place. Keep container tightly closed. Keep away from heat, sparks and flame. Do not store near combustible materials. Refrigerator/flammables. Keep at temperatures between 10 ° and 30 °C. Do not freeze. Incompatible Materials. Acids, Bases, Metals. Reducing Agent. Strong reducing agents. Combustible material.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures

Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical StateLiquidAppearanceColorlessOdorpungent

Odor ThresholdNo information availablepHNo information availableMelting Point/Range-20 °C / -4 °FBoiling Point/RangeNo information availableFlash Point43 °C / 109.4 °FEvaporation RateNo information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNo information available

Specific Gravity 0.820

SolubilityNo information availablePartition coefficient; n-octanol/waterNo data availableAutoignition Temperature400 °C / 752 °FDecomposition TemperatureNo information availableViscosityNo information available

Molecular FormulaC6 H12 O3Molecular Weight132.16Self-Accelerating Decomposition Temperature (SADT)70°C

10. Stability and reactivity

Reactive Hazard Yes

Stability Organic peroxide. Hazardous decomposition may occur. Oxidizer: Contact with

combustible/organic material may cause fire.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Combustible material. Excess heat.

Incompatible Materials Acids, Bases, Metals, Reducing Agent, Strong reducing agents, Combustible material

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Organic acids, Acetone

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LC50

Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

Somponent information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
tert-Butyl peroxyacetate	LD50 = 675 mg/kg (Rat)	LD50 = 4000 mg/kg (Rabbit)	LC50 = 450 ppm (Rat) 8 h
		LD50 = 5657 mg/kg (Rabbit)	

tert-Butyl peroxyacetate, 50% solution in aromatic free mineral spirit

Naphtha (petroleum), hydrotreated	LD50 > 6000 mg/kg (Rat)	LD50 > 5000 mg/kg (Rabbit)	LC50 > 8500 mg/m ³ (Rat) 4 h
heavy			

Toxicologically Synergistic

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes

Sensitization May cause sensitization by skin contact

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
tert-Butyl peroxyacetate	107-71-1	Not listed				
Naphtha (petroleum),	64742-48-9	Not listed				
hydrotreated heavy						

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known **Aspiration hazard** Category 1

delayed

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Naphtha (petroleum), hydrotreated heavy	Not listed	LC50: = 2200 mg/L, 96h (Pimephales promelas)	Not listed	Not listed

Persistence and Degradability Insoluble in water

No information available. **Bioaccumulation/ Accumulation**

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3103

Proper Shipping Name ORGANIC PEROXIDE TYPE C, LIQUID

Technical Name tert-Butyl peroxyacetate, Naphtha (petroleum), hydrotreated heavy

Hazard Class 5.2 Packing Group II

TDG

UN-No UN3103

Proper Shipping Name ORGANIC PEROXIDE TYPE C, LIQUID

Hazard Class 5.2 Packing Group

<u>IATA</u>

UN-No UN3103

Proper Shipping Name Organic peroxide type C, liquid

Hazard Class 5.2

IMDG/IMO

UN-No UN3103

Proper Shipping Name ORGANIC PEROXIDE TYPE C, LIQUID

Hazard Class 5.2

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
tert-Butyl peroxyacetate	107-71-1	Χ	ACTIVE	-
Naphtha (petroleum), hydrotreated	64742-48-9	X	ACTIVE	-
heavy				1

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
tert-Butyl peroxyacetate	107-71-1	Х	-	203-514-5	Χ	Χ	Χ	Χ	Χ	KE-04348
Naphtha (petroleum), hydrotreated	64742-48-9	Х	-	265-150-3	Х	-		Х	Х	KE-25622
heavy										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

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OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
tert-Butyl peroxyacetate	Χ	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Naphtha (petroleum), hydrotreated heavy	-	Use restricted. See item 28. (see link for restriction details) Use restricted. See item 29. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
tert-Butyl peroxyacetate	107-71-1	Listed	Not applicable	Not applicable	Not applicable
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Qualifying Quantities Qualifying Quantities			
		for Major Accident	for Safety Report		
		Notification	Requirements		
tert-Butyl peroxyacetate	107-71-1	Not applicable	Not applicable	Not applicable	Not applicable
Naphtha (petroleum),	64742-48-9	Not applicable	Not applicable	Not applicable	Not applicable
hydrotreated heavy					

16. Other information

tert-Butyl peroxyacetate, 50% solution in aromatic free mineral spirit

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 Creation Date
 26-Apr-2011

 Revision Date
 25-Dec-2021

 Print Date
 25-Dec-2021

Revision SummaryThis document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS