



SAFETY DATA SHEET

Preparation Date: 5/1/2019 Revision date Not Applicable Revision Number: Not Applicable

1. IDENTIFICATION

Product identifier

Product code: B1510

Product Name: tert-Butyl Hypochlorite

Other means of identification

Synonyms: No information available

CAS #: 507-40-4
RTECS # EO6220000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Self-heating substances and mixtures	Category 1
Flammable liquids	Category 2

Label elements

Danger

Hazard statements

Causes severe skin burns and eye damage

Self-heating; may catch fire Highly flammable liquid and vapor

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Keep cool

May be harmful if swallowed

Precautionary Statements - Prevention

Do not breathe mist or vapors

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Precautionary Statements - Response Immediately call a POISON CENTER or physician

IN CASE OF FIRE: DO NOT use water. Use dry chemical, or CO2 to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up Maintain air gap between stacks/pallets Store away from other materials Store separately Protect from sunlight

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
tert-Butyl Hypochlorite	507-40-4	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect

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himself.

Skin Contact: Wash off immediately with soap and plenty of water. Remove all contaminated clothes and

shoes. Continue flushing with plenty of water for at least 15 minutes. Immediate medical

attention is required. Call a physician immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a

physician immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Rinse mouth. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Severe skin and eye irritation or burns

Causes digestive (gastrointestinal) tract irritation May cause gastrointestinal (digestive) tract burns

Somnolence Weakness

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Foam.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter

and spread fire.

Specific hazards arising from the chemical

Hazardous combustion products Carbon Monoxide, Carbon Dioxide. hydrogen chloride gas.

Specific hazards Flammable. May be ignited by heat, sparks or flames.

Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may

produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid

contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed

spaces.

Environmental precautions Prevent product from entering drains. Prevent further leakage or spillage if safe to

do so. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g.

vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning upUse appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Use only non-sparking tools. Clean contaminated surface

thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigerated. Keep at temperatures between 2 and 8 °C. Moisture sensitive. Protect from moisture. Air sensitive. Heat sensitive. Sensitive to light. Store in light-resistant containers. Protect from light. Store in a segregated and approved area. Store away from incompatible materials. Packed under Argon.

Incompatible Materials:

Oxidizing agents Acids

Bases

Reducing agents

Combustible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
tert-Butyl Hypochlorite	507-40-4	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
tert-Butyl Hypochlorite	507-40-4	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
tert-Butyl Hypochlorite	507-40-4	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Face-shield.

Skin and body protection: Long sleeved clothing

Chemical resistant apron

Gloves

If working with large quantities: Chemical resistant protective suit

Boots

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:LiquidClear.Yellow.

Odor:TasteFormulaPungent.No information available.C4H9CIO

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

108.57 Highly flammable -10 °C/14 °F

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available No information available No information available

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Boiling point/range(°C/°F): Bulk density:

78 °C/172 °F No information available

Specific gravity: pH

0.96 No information available

Evaporation rate: Vapor density:

No information available No information available

Odor threshold (ppm): Partition coefficient

No information available (n-octanol/water):

No information available

Miscibility: Solubility:

No information available
No information available

10. STABILITY AND REACTIVITY

Density (g/cm3):

No information available

No information available

No information available

No information available

VOC content (g/L):

Viscosity:

Vapor pressure @ 20°C (kPa):

Reactivity

No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Exposure to moisture. Exposure to moist air. Exposure to

light. Exposure to air. Incompatible materials.

Incompatible Materials: Oxidizing agents

Acids Bases

Reducing agents Combustible materials

Hazardous decomposition

products:

No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation. Skin. Eyes.

Acute Toxicity

Component Information

tert-Butyl Hypochlorite
CAS No 507-40-4

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LD50/oral/rat = 2780 mg/kg LD50/oral/mouse = 2460 mg/kg

LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Tox = 2780 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 2460 mg/kg

LD50/dermal/rabbit

Value - Acute Tox = No information available

LD50/dermal/rat

VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information availableVALUE - Gas = No information availableVALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Corrosive. Causes severe irritation and burns.

Eye Contact: Corrosive. Severe eye irritation. Causes eye burns. Possible eye damage.

Inhalation May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed. Causes digestive (gastrointestinal) tract irritation.

May cause digestive (gastrointestinal) tract burns. May affect behavior/central

nervous system (somnolence). May cause muscle weakness.

Aspiration hazard No information available.

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

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

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Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
tert-Butyl Hypochlorite	507-40-4	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
tert-Butyl Hypochlorite	507-40-4	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN3255

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Proper Shipping Name: tert-Butyl hypochlorite

Hazard Class 4.2
Subsidiary Class 8
Packing group: 1
Emergency Response Guide 135

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information available

Description: UN3255, tert-Butyl hypochlorite, 4.2 (8), I

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No Information available

Description: Forbidden

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

Description: Forbidden

IMDG

UN-No: UN3255

Proper Shipping Name: tert-Butyl hypochlorite

Hazard Class: 4.2

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A Special Provisions 76

Description UN3255, tert-Butyl hypochlorite, 4.2 (8), I

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
No information available
No information available
No information available
No information available

Description: Forbidden

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
No information available
No information available
No information available
No information available

Description: Forbidden

IATA

UN Number Not Regulated

Proper Shipping Name: No information available

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Transport hazard class(es)
Subsidiary Risk:
Packing group
No information available
No information available
No information available
No information available

Response

Special Provisions No information available

Description: Forbidden

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
tert-Butyl Hypochlorite	507-40-4	Not Listed	Not present	Not present	Present (2)-2798	Not listed	Present	Present 208-072-7

U.S. Regulations

tert-Butyl Hypochlorite

New Jersey TCPA - EHS: 2500lbTQ

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
tert-Butyl Hypochlorite	507-40-4	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
tert-Butyl Hypochlorite	507-40-4	None	None	None	None	None

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
tert-Butyl Hypochlorite	507-40-4	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous

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DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
tert-Butyl Hypochlorite	507-40-4	Not Listed	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances	
tert-Butyl Hypochlorite	507-40-4	Not listed	
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject	
		to Mandatory Reporting	
tert-Butyl Hypochlorite	507-40-4	Not listed	

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
tert-Butyl Hypochlorite	507-40-4	Flam Liq. (H225); Self-heat. 1 (H251);
		Skin Corr. 1B (H314); Eye Dam. 1
		(H318)

EU - CLP (1272/2008)

R-phrase(s)

R34 - Causes burns R11 - Highly flammable

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
tert-Butyl Hypochlorite	507-40-4		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

F - Highly flammable

C - Corrosive





16. OTHER INFORMATION

Preparation Date: 5/1/2019
Revision date Not Applicable
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

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End of Safety Data Sheet

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