



Odor Hunter™

Safety Data Sheet

Revision date: 05/28/2015

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Odor Hunter™
Other means of identification : tert-Butyl alcohol

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation : Instant odor eliminator

1.3. Name, Address, and Telephone of the Responsible Party

Manufacturer

Sostram Corporation
2525 Meridian Parkway, Suite 350
Durham, NC 27713
T 919-226-1195

1.4. Emergency Telephone Number

Emergency Number : (800) 424-9300 CHEMTREC (transportation and spills)
(800) 900-4044 Poison Control Center (human health)
(800) 345-4735 ASPCA (animal health)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable liquids 2 H225
Acute Toxicity, Oral 3 H301
Acute toxicity, Inhalation 3 H331
Acute toxicity, Dermal 3 H311
Specific target organ toxicity - single exposure 1 H370
For the full text of the H-statements, see Section 16.

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapor.
H301+ H311+ H331- Toxic if swallowed, in contact with skin or if inhaled.

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H370- Causes damage to organs.

Precautionary statements (GHS-US) :

P210- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233- Keep container tightly closed.
P240- Ground/bond container and receiving equipment.
P241- Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242- Use only non-sparking tools.
P243- Take precautionary measures against static discharge.
P260-Do not breathe dust/ fume/ gas/ mist/ vapors/ 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.
P280-Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310-IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353-IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P307 + P311-IF exposed: Call a POISON CENTER or doctor/ physician.
P322-Specific measures (see supplemental first aid instructions on this label).
P330-Rinse mouth.
P361-Remove/Take off immediately all contaminated clothing.
P363-Wash contaminated clothing before reuse.
P370 + P378-In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233-Store in a well-ventilated place. Keep container tightly closed.
P403 + P235-Store in a well-ventilated place. Keep cool.
P405-Store locked up.
P501-Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
tert-Butyl alcohol	(CAS No.) 75-65-0	100	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H335

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

First-aid measures after eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Call a poison control center or doctor immediately for treatment advice. Have affected person sip a glass of water if able to swallow. Do not induce vomiting unless told by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Carbon oxides, Peroxides

Explosion hazard : None known.

Reactivity : None.

5.3. Advice for firefighters

Protection during firefighting : Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

For containment : Contain spillage.

Methods for cleaning up : Collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component	CAS-No.	Value	Control parameter	Basis
tert-Butyl alcohol	75-65-0	TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Not classifiable as a human carcinogen		
		TWA	100 ppm 300 mg/m ³	USA, NIOSH Recommended Exposure Limits
		ST	150 ppm 450 mg/m ³	USA, NIOSH Recommended Exposure Limits
		TWA	100 ppm 300 mg/m ³	USA, Occupational Exposure Limits (OSHA)-Table Z-1 Limits for Air Contaminants.
		The value in mg/m ³ is approximate.		

8.2. Exposure controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Hand protection : Wear impervious gloves to minimize skin contact.

Eye protection : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Wear impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

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Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colorless
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 23 - 26 °C (73 - 79 °F)
Freezing point	: No data available
Boiling point	: 83 °C (181 °F)
Flash point	: 11 °C (52 °F) - closed cup
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Upper explosion limit: 8 %(V) Lower explosion limit: 2.4 %(V)
Vapour pressure	: 41 hPa (31 mmHg) at 20 °C (68 °F) 59 hPa (44 mmHg) at 26 °C (79 °F)
Relative vapour density at 20 °C	: 2.56 - (Air = 1.0)
Relative density	: 0.775 g/mL at 25 °C (77 °F)
Solubility	: completely miscible
Log Pow	: No data available
Log Kow	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

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10.3. Possibility of hazardous reactions

Vapors may form explosive mixture with air.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents, Copper, Alkali metals, Aluminum

10.6. Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

tert-Butyl alcohol	
LD50 oral rat	2,743 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	No data available.

Skin corrosion/irritation : Mild skin irritation - 24 h (Rabbit)

Serious eye damage/irritation : Irritating to eyes. - 24 h (Rabbit)

Respiratory or skin sensitisation : No data available.

Germ cell mutagenicity : No data available.

Carcinogenicity : This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
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.
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.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity : No data available.

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : No data available.

Aspiration hazard : No data available.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to fish and wildlife.

tert-Butyl alcohol	
LC50 fish	Pimephales promelas (fathead minnow) - 6,140 mg/l - 96 h
EC50 Daphnia and other aquatic organisms	933 mg/l - 48 h

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12.2. Persistence and degradability

Biodegradability Zahn-Wellens Test - Exposure time 19 d
Result: > 99.9 % - Readily biodegradable

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

No data available

12.5. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging : Dispose of as unused product.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

UN1120

14.2. UN proper shipping name

DOT (US)

UN number: 1120

Class: 3

Packing group: II

Proper shipping name: Butanols

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG

UN number: 1120

Class: 3

Packing group: II

EMS-No: F-E, S-D

Proper shipping name: BUTANOLS

IATA

UN number: 1120

Class: 3

Packing group: II

Proper shipping name: Butanols

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313:

WARNING

May be harmful if inhaled. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Do not breathe spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

15.2. US State regulations

tert-Butyl alcohol

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. – New Jersey - Right to Know List

U.S. - California – Prop 65 Components-This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating

Health hazard: 2

Chronic Health Hazard: *

Flammability: 3

Physical Hazard 0

NFPA Rating

Health hazard: 2

Fire Hazard: 3

Reactivity Hazard: 0

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.