

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name P-TERT-AMYLPHENOL

Synonyms PTAP, p-(1,1-Dimethylpropyl)phenol

Use Agricultural, Flavors and Fragrances, Oilfield

Company Sasol Chemicals (USA) LLC

(an affiliate of Sasol Chemicals North America LLC)

Address 12120 Wickchester Lane, Houston, TX 77079

Telephone CHEMTREC North America Transportation Emergency (24-hr) (800) 424 9300

 CHEMTREC World Wide
 (703) 527-3887

 Other Emergencies (24-hr)
 (337) 494 5142

 SDS and Product Information (8:00am-4:30pm CST)
 (281) 588 3491

 Health and Safety Information (7:30am-4:00pm CST)
 (281) 588 3492

E-mail address SasolElectronicSDS@us.sasol.com

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Skin corrosion Category 1B
Hazards Serious eye damage Category 1

Skin sensitisation Category 1
Chronic aquatic toxicity Category 1

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

Response P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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.

P310 Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P391 Collect spillage.

Storage P405 Store locked up.

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Phenol, 4-(1,1-dimethylpropyl)-	80-46-6	97 - 99
Phenol, 2-(1,1-dimethylethyl)-	3279-27-4	1 - 2
Phenol. 4-(1.1-dimethylethyl)-	98-54-4	<=1

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water for at least 15 minutes. Call a physician

immediately.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion Do not induce vomiting without medical advice. Call a physician immediately. Never

give anything by mouth to an unconscious person.

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SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion In the event of fire and/or explosion do not breathe fumes.

NFPA Class IIIB combustible liquid.

Water spray Dry powder Foam Carbon dioxide (CO2) Suitable

extinguishing media

Protective equipment Wear self-contained breathing apparatus and protective suit.

and precautions for

firefighters

Further information Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up

Remove all sources of ignition. Ensure adequate ventilation. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Normal measures for preventive fire protection. Take measures to prevent the build up of

electrostatic charge. Keep away from sources of ignition - No smoking. Keep containers

tightly closed in a dry, cool and well-ventilated place.

Storage/Transport <= 35 °C

> temperature <= 95 °F

Storage/Transport **Ambient**

pressure

Load/Unload 120 °C

temperature 248 °F

Further information on storage conditions

Mix thoroughly before use.

EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION 8

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas.

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PERSONAL PROTECTIVE EQUIPMENT

Eyes Chemical resistant goggles must be worn.

Wear as appropriate:

Face-shield

Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions

cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory

protection.

EXPOSURE GUIDELINES

Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid

Colour white

Form flakes

Odour phenol-like

Odour Threshold No data available

Flash point ca. 134 °C, 273.2 °F; DIN 51758;

Flammability Upper explosion limit: No data available

Lower explosion limit: No data available

Boiling point/boiling

range

ca. 256 °C, 493 °F;

Melting point/range ca. 93 °C, 200 °F;

Auto-ignition

temperature

Not applicable

Decomposition temperature

No data available

Flammability (solid,

No data available

gas)

Vapour pressure 3.1 hPa @ 100 °C, 212 °F;

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Vapour density Not applicable

Density 0.922 g/cm3 @ 100 °C, 212 °F;

Relative density No data available

Water solubility 0.037 g/l @ 20 °C, 68 °F;

Viscosity No data available

Viscosity, dynamic 2.9 mPa.s @ 100 °C, 212 °F;

pH Not applicable

Evaporation rate Not applicable

Partition coefficient: n- No data available

octanol/water

SECTION 10 STABILITY AND REACTIVITY

Reactivity No decomposition if stored and applied as directed.

Chemical stability Stable under normal conditions.

Conditions to avoid Keep away from heat and sources of ignition.

Hazardous decomposition

None known.

products

Materials to avoid Strong acids and oxidizing agents.

Hazardous polymerisation

None known.

SECTION 11 TOXICOLOGICAL INFORMATION

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

Test substance: p-tert-butylphenol

(literature value)

Acute inhalation LC50 Rat (4 hours): > 5.6 mg/l; dust/mist

toxicity Test substance: p-tert-butylphenol

(literature value)

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Acute oral toxicity LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401

Test substance: p-tert-amylphenol

Skin (Rabbit): OECD Test Guideline 404

corrosion/irritation Test substance: p-tert-amylphenol

Corrosive

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Mouse: Causes sensitisation.; local lymphnode assay

OECD Test Guideline 429

Germ cell mutagenicity Genotoxicity in vitro:

Result: In vitro tests did not show mutagenic effects

(literature value)

Genotoxicity in vivo:

Result: In vivo tests did not show mutagenic effects

(literature value)

Assessment Mutagenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity Reproductive toxicity:

Rat; Oral; 140-day; OECD Test Guideline 416

NOAEL (parents): 70 mg/kg NOAEL (F1): 70 mg/kg NOAEL (F2): 70 mg/kg

Test substance: p-tert-butylphenol

Assessment Reproductive toxicity:

Based on available data, the classification criteria are not met.

Teratogenicity:

Rat: Oral:

NOAEL (teratogen): 500 mg/kg NOAEL (maternal): 50 mg/kg

(literature value)

Assessment teratogenicity:

Based on available data, the classification criteria are not met.

STOT - single exposure

No data available

STOT - repeated Rat; Oral; 140-day; OECD Test Guideline 416

exposure NOAEL: 70 mg/kg

Test substance: p-tert-butylphenol

Symptoms: reduced food consumption, reduced body weight gain

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Rat; Oral; 42-day; OECD Test Guideline 422

NOAEL: 60 mg/kg

Test substance: p-tert-butylphenol

(literature value)

Target Organs: Respiratory Tract

Symptoms: Breathing difficulties, Changes in the blood count

Rat; Dermal; 90-day; NOAEL: 25 mg/kg

(literature value) Target Organs: Skin

Symptoms: Ulceration, Skin disorders

Aspiration toxicity Not applicable

Carcinogenicity Assessment carcinogenicity:

Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Very toxic to aquatic life with long lasting effects.

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 1 - 10 mg/l; flow-through test

(literature value)

Toxicity to aquatic EC50 (Daphnia magna (Water flea)) 48 hours: > 1 - 10 mg/l; static test; ISO 6341

invertebrates Test substance: sodium p-tert-amylphenol

(literature value)

LC50 (Crangon septemspinosa) 96 hours: > 1 - 10 mg/l; static test

(literature value)

Toxicity to algae EC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 1 - 10 mg/l; static test;

OECD Test Guideline 201

Test substance: sodium p-tert-amylphenol

(literature value)

NOEC (Pseudokirchneriella subcapitata (green algae)) 72 hours: 1.8 mg/l; static test;

OECD Test Guideline 201

Test substance: sodium p-tert-amylphenol

(literature value)

Chronic toxicity to NOEC (Oryzias latipes (Orange-red killifish)) 100 d: 0.1 mg/l; flow-through test

fish (literature value)

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Chronic toxicity to NOEC (Daphnia magna (Water flea)) 21 d: 0.73 mg/l; semi-static test; OECD Test

aquatic invertebrates Guideline 211

Test substance: p-tert-butylphenol

(literature value)

Biodegradation Not readily biodegradable.

OECD Test Guideline 301B (28 d): > 60 %

(10 day window not reached)

Bioaccumulative BCF: 229; QSAR

potential low bioaccumulation potential

(literature value)

Mobility in soil Adsorption/Soil; QSAR

Koc: 1470

Slightly mobile in soils (literature value)

Other adverse effects Based on available data, the classification criteria are not met.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code Re-evaluation of the product may be required by the user at the time of disposal, since

the product uses, transformations, mixtures, contamination, and spillage may change the

classification.

Disposal methods Dispose of only in accordance with local, state, and federal regulations. Do not

contaminate any lakes, streams, ponds, groundwater or soil.

Empty containers. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO

NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and

promptly returned to a drum reconditioner, or properly disposed.

SECTION 14 TRANSPORT INFORMATION

DOT UN 2430, Alkylphenols, solid, n.o.s., (p-tert-amylphenol), 8, II, Marine pollutant

IATA UN 2430, Alkylphenols, solid, n.o.s., (p-tert-amylphenol), 8, II

Environmentally Hazardous Substances

IMDG UN 2430, Alkylphenols, solid, n.o.s., (p-tert-amylphenol), 8, II, Marine pollutant

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

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Remarks No data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

ComponentsCAS-No.Phenol, 4-(1,1-dimethylpropyl)-80-46-6Phenol, 2-(1,1-dimethylethyl)-3279-27-4Phenol, 4-(1,1-dimethylethyl)-98-54-4

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.

SARA 302 Status

<u>Components</u> <u>CAS-No.</u> <u>Weight percent</u>

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

SARA 311/312 Classification

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

SARA 313 Chemical

<u>Components</u> <u>CAS-No.</u> <u>Weight percent</u>

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

 Components
 Reportable Quantity
 Weight percent

INTERNATIONAL REGULATIONS

WHMIS Classification

Skin corrosion Category 1B
Serious eye damage Category 1
Skin sensitisation Category 1
Chronic aquatic toxicity Category 1

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European Union

Classification according to Regulation (EU) 1272/2008.

Skin corrosion, Category 1B Serious eye damage, Category 1 Skin sensitisation, Category 1 Chronic aquatic toxicity, Category 1

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. ISHL - Inventory of Chemical Substances	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Listed
New Zealand. Inventory of Chemical Substances (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65
Components
none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD	RATINGS
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			Physical Hazard/
	<u>Health</u>	<u>Flammability</u>	<u>Instability</u>
HMIS®	3	1	0



NFPA 3 1 0

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