

CAS No: 88-85-7  
RTECS No: SJ9800000  
UN No: 2779  
EC No: 609-025-00-7

2-sec-Butyl-4,6-dinitrophenol  
2-(1-Methylpropyl)-4,6-dinitrophenol  
2,4-Dinitro-6-(1-methylpropyl)phenol  
2,4-Dinitro-6-sec-butylphenol  
 $C_{10}H_{12}N_2O_5$   
Molecular mass: 240.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>	Risk of fire and explosion.		
<b>EXPOSURE</b>		<b>STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
<b>Inhalation</b>	Blue skin. Convulsions. Headache. Sweating. Laboured breathing. Unconsciousness.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>Skin</b>	MAY BE ABSORBED! (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>Eyes</b>	Redness. Pain. Blurred vision. Temporary loss of vision.	Safety goggles face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Abdominal pain. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Rest. Refer for medical attention.
<b>SPILLAGE DISPOSAL</b>		<b>PACKAGING &amp; LABELLING</b>	
Do NOT wash away into sewer. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P3 filter respirator for toxic particles.		T Symbol N Symbol R: 61-62-24/25-36-44-50/53 S: 53-45-60-61 Note: E UN Hazard Class: 6.1 UN Pack Group: II	
<b>EMERGENCY RESPONSE</b>		<b>SAFE STORAGE</b>	
Transport Emergency Card: TEC (R)-61GT7-II		Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Ventilation along the floor.	

### IMPORTANT DATA

**Physical State; Appearance**

ORANGE CRYSTALS, WITH PUNGENT ODOUR.

**Chemical dangers**

The substance decomposes on heating producing toxic fumes including nitrogen oxides. The solution in water is a weak acid. Attacks many metals in presence of water.

**Occupational exposure limits**

TLV not established. PDK not established.

**Routes of exposure**

The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

**Inhalation risk**

A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

**Effects of short-term exposure**

The substance irritates the eyes. The substance may cause effects on the gastrointestinal tract and central nervous system. Exposure to the aerosol in hot environment may result in death.

**Effects of long-term or repeated exposure**

The substance may have effects on the kidneys, liver, blood, immune system and eyes, resulting in cataract. May cause reproductive toxicity in humans.

### PHYSICAL PROPERTIES

Melting point: 38-42°C

Relative density (water = 1): 1.3 at 30°C

Solubility in water: none at 20°C (<0.1 g/100 ml)

Vapour pressure, Pa at 20°C: 0.007

Relative vapour density (air = 1): 8.3

### ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to honey bees, birds and mammals. The substance may cause long-term effects in the aquatic environment.

### NOTES

Temperature of decomposition unknown in literature.

If the pesticide is present under the form of a formulation containing hydrocarbon solvents, vomiting may not be induced.

Depending on the degree of exposure, periodic medical examination is suggested.

Carrier solvents used in commercial formulations may change physical and toxicological properties.

Do NOT take working clothes home.

Aatox, Aretit, BNP 20, BNP 30, Basanite, Butaphene, Caldon, Chemox General, Chemox PE, Desicoil, Dibutox, Dinitrall, DN 289, Dow General, Dytop, Fanicide, Gebutox, Hivertox, HOE 26150, Ivosit, Kiloseb, Knowx-Weed, Ladob, Laseb,

Nitropone C, Persevttox, Phenotan, Premerge, Sinox General, Sparic, Spurge, Subitex and Unicrop are trade names.

If the substance is formulated with solvents also consult the ICSCs of these materials.

Card has been partly updated in October 2005. See section Emergency Response.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information