

NONYL PHENOL (MIXED ISOMERS)

0309

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CAS No: 25154-52-3
 RTECS No: SM5600000
 UN No: 3145
 EC No: 601-053-00-8

(2,6-Dimethylheptan-4-yl)phenol, mixed isomers
 $C_{15}H_{24}O$
 Molecular mass: 220.4

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Alcohol-resistant foam. Powder. Carbon dioxide.
EXPLOSION		Prevent build-up of electrostatic charges (e.g., by grounding).	
EXPOSURE		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
Inhalation	Sore throat. Nausea. Burning sensation. Cough. Laboured breathing. Shortness of breath.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Refer for medical attention.
Skin	Redness. Pain. Burning sensation. Skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eyes	Redness. Pain. Severe deep burns.	Face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Sore throat. Burning sensation. Abdominal pain. Diarrhoea. Nausea. Shock or collapse.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL

Personal protection: chemical protection suit. Do NOT let this chemical enter the environment. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place.

PACKAGING & LABELLING

C Symbol
 N Symbol
 R: 22-34-62-63-50/53
 S: (1/2-)26-36/37/39-45-46-60-61
 UN Hazard Class: 8
 UN Pack Group: II
 Marine pollutant.

EMERGENCY RESPONSE

Transport Emergency Card: TEC (R)-80GC3-II+III
 NFPA Code: H2; F1; R0

SAFE STORAGE

Store in an area without drain or sewer access. Separated from strong oxidants, strong bases.

IPCS

International Programme on Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©
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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance

PALE YELLOW VISCOUS LIQUID, WITH CHARACTERISTIC ODOUR.

Physical dangers

As a result of flow, agitation, etc., electrostatic charges can be generated.

Chemical dangers

The substance decomposes on heating producing toxic fumes. Reacts with strong bases and strong oxidants.

Occupational exposure limits

TLV not established.
MAK not established.

Routes of exposure

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

Inhalation risk

Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.

Effects of short-term exposure

The substance is corrosive to the eyes and the skin, and is irritating to the respiratory tract. Corrosive on ingestion.

Effects of long-term or repeated exposure

Animal tests show that this substance possibly causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES

Boiling point: 290-310/C

Melting point: -8/C

Relative density (water = 1): 0.95

Solubility in water, g/100 ml at 25/C: 0.06 (very poor)

Vapour pressure, Pa at 20/C: negligible

Relative vapour density (air = 1): 7.59

Relative density of the vapour/air-mixture at 20/C (air = 1): 0.95

Flash point: 148-155/C c.c.

Auto-ignition temperature: 370/C

Octanol/water partition coefficient as log Pow: 3.28

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish, in seafood and in plants.

NOTES

Other CAS 84852-15-3. The purity of commercial nonyl phenol is reported as 90% w/w with the following impurities: 2-Nonylphenol (5% w/w), 2,4-Dinonylphenol (5% w/w).

The recommendations on this Card also apply to Isononyl phenol CAS 11066-49-2, Nonyl phenol (branched) CAS 90481-04-2.

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