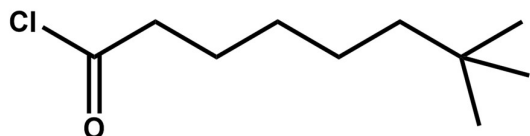


DATA SHEET Nr 1720 H
NEODECANOYL CHLORIDE
NEODCL



Molecular formula: C₁₀H₁₉ClO

Molecular weight: 190.7

CAS number: 40292-82-8

EC number: 254-875-0

SYNONYMS

Neodecanoic chloride

APPEARANCE

Clear liquid with pungent odor.

PHYSICAL PROPERTIES

Density (20 °C): 0.95 g/cm³

Boiling point: 210 °C (101 kPa)

Solubility:

Soluble in usual organic solvents: (acetone, chloroform, toluene, THF).

CHEMICAL PROPERTIES

- Reacts by hydrolysis to yield hydrochloric acid and neodecanoic acid
- Reacts with amines yielding neodecanoamides.
- Reacts with alcohols to yield neodecanoates.

USES

- Utilized in the production of peroxyester polymerization initiators
- Used in the synthesis of a class of insect repellants.

NEODECANOYL CHLORIDE NEODCL

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Color	≤ 10 APHA	Colorimetry	C – 210
Assay	≥ 99.0 %	Argentometry	P – 608
Phosgene	≤ 0.05 %	Iodometry	I – 230
Hydrogen chloride	≤ 0.05 %	Acidimetry	A – 220
Neodecanoic acid	≤ 1.0 %	Gas chromatography	GC – 460

PACKAGING

Polyethylene lined metal drum containing 180 kg.
Polyethylene drum containing 195 kg.
In bulk.

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flash point (closed cup): 86 °C

- Health hazards:
LD 50 (oral, rat): 2180 mg/kg

Corrosive; irritating to skin, mucous membranes and eyes

- Recommended:

Approved safety eyewear, chemically resistant gloves and laboratory-appropriate chemical resistant clothing are recommended when handling

In case of contact with eyes, flush for a minimum of 15 minutes with fresh water and contact a physician.

In case of acute inhalation, remove the contaminated individual to fresh air and seek medical assistance.

- Neutralization:
Neutralize by reaction with cold alkaline solutions.

STORAGE

The product is stable if stored in its closed original drum in a covered, dry, cool and well-ventilated area.

In the case of prolonged storage, re-analyze for the presence of HCl and carboxylic acid prior to use

TRANSPORTATION

Refer to MSDS

Nr 1720 H

August 2018



503/0113(7)-465(7)

