

datasheet

Nitrouse Oxide , Liqud Bulk rev.1 , 05/2019

Nitrouse Oxide, technical liquid in tanker

SAP No.: 9331

E 942, FOOD GASES

CAS-Number 10024-97-2

Characterization acc. ADR UN 2201, Nitrous Oxide, REFRIGERATED LIQUID,

2.2 (5.1) Class 2, 3O

Essential properties

Colourless, odorless, oxidizing, narcotic gas, liquified, heavier than air

Symbols of Risks oxidizing, gas

Physical Properties

molecular weight: 44,013 kg/kmol

gas density at 0°C and 1,013 bar: 1,9781 kg/m3

density ratio to air: 1,5299

vapour pressure at 20°C: 50,599 bar

For additional safety information see Material-/safety data sheet No. *-N2O-093A

Composition

N2O > 99 Vol.-%

Impurities

H2O < 0.05 Vol.%

CO < 30 ppmv

NOx < 10 ppmv

Remarks Nitrous oxide is approved as a foodstuff by EU. Time of use 3 years

Description

Colourless, oxidizing, liquified gas slightly sweet taste and pleasent smell. In a mixture with air-Oxygen intoxicant and narcotic. Forms explosive mixtures with hydrocarbons, ammonia, carbon monoxide, carbon disulphide, fluorine, phosphine, sulphur dioxide, hydrogen sulphide. No contact to oil, grease, glycerine, carbon and flammable organic substances!

Safety data

TLV 100 ml/m3, (recommendation)

Materials

Pressure Vessels and Valves:any usual materials danger of stress corrosion cracking caused by humidity at brass or copper(-alloys). Keep fittings and pipes free from oil and grease!

Seals: PTFE, PCTFE Time of use 3 years