

MSDS: according to EC directive 2001/58/EC and the REACH regulation 1907/2006 Annex II

1. Identification of the substance/preparation and of the company/undertaking

Name : Buffered Formol 4%

Product code : 1009946x-1009947x-1009948x-1009949x-1009957x
 1009958x-1009959x-11099425-1169940x-1169945x

Prefilled vials, jars, buckets, can, cubitainer

Use of the substance/preparation : Histology fixative

Company identification:

Name : Labonord

Street : Z.I. De Templemars Place Gutenberg BP96

City : 59175 Templemars

Country : France

Tel. : +33(0)3 28 55 91 30

Fax : +33(0)3 28 55 91 40

Website : www.labonord.com

Emergency number : HEMMIS NV
 +32(0)56.37.26.37

Official advisory body UK : National Poisons Information Service
 +44 870 600 6266

2. Hazards identification

Classified dangerous in accordance with Directives 67/548/EEC and 1999/45/EC

Symbol :



Xn

Xn - Harmful

R-phrases : R40 - Limited evidence of a carcinogenic effect, R43 - May cause sensitisation by skin contact

3. Composition/Information on ingredients

Name : Buffered Formol 4%

Symbol : Xn

R-phrases : R40, R43

Composition							
Name	Symbol	CAS no	EC/EINECS/ELINCS	EC index no	R-phrases	Reach	%
formaldehyde	Xn	50-00-0	200-001-8	605-001-00-5	R20/21/22, R36/37/38, R40, R43		< 5%

4. First-aid measures

- First-aid measures after inhalation : Remove the victim into fresh air - Respiratory problems: consult a doctor/medical service
- First-aid measures after skin contact : Wash immediately with lots of water - Remove clothing before washing - Take victim to a doctor if irritation persists
- First-aid measures after eye contact : Rinse immediately with plenty of water - Do not apply neutralizing agents - Take victim to an ophthalmologist if irritation persists
- First-aid measures after ingestion : Rinse mouth with water - Immediately after ingestion: give lots of water to drink - Do not induce vomiting - Call Poison Information Centre (www.big.be/antigif.htm) - Consult a doctor/medical service if you feel unwell - Ingestion of large quantities: immediately to hospital - Doctor: gastric lavage

5. Fire-fighting measures

- Extinguishing agents - fire fighting instructions :
- FIRE EXTINGUISHING MEDIA
 - Water spray
 - Alcohol-resistant foam
 - BC powder
 - Carbon dioxide
- FIREFIGHTING INSTRUCTIONS:
- Cool tanks/drums with water spray/remove them into safety
 - Do not move the load if exposed to heat
 - Take account of toxic firefighting water
 - Use water moderately and if possible collect or contain it
- Fire hazard : DIRECT FIRE HAZARD
- Material presenting a fire hazard
- INDIRECT FIRE HAZARD
- Temperature above flashpoint: higher fire/explosion hazard
- Reactivity hazard : On heating: release of irritant gases/vapours - Upon combustion CO and CO₂ are formed - Reacts violently with many compounds e.g.: with (strong) oxidizers - Unstabilized product polymerizes

6. Accidental release measures

- General measures : Keep upwind - Mark the danger area - Close doors and windows of adjacent premises - No naked flames - Prevent soil and water pollution - Prevent spreading in sewers - Keep containers closed - Wash contaminated clothes - Large spills/in confined spaces: consider evacuation
- Personal protection (Emergency response) :
- Gloves - Protective goggles - Protective clothing - Large spills/in enclosed spaces: compressed air apparatus - See "Material-Handling" to select protective clothing



Leak : Contain released substance, pump into suitable containers - Consult "Material-handling" to select material of containers - Plug the leak, cut off the supply - Dam up the liquid spill - Try to reduce evaporation

7. Handling and storage

Handling the product : Comply with the legal requirements. Measure the concentration in the air regularly. Use only in well-ventilated areas. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Clean contaminated clothing. Keep container tightly closed. Keep away from naked flames/heat. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Exhaust gas must be neutralised. At temp>flashpoint: use spark-/explosionproof appliances. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks

Storage area : Store in a cool area. Keep container in a well-ventilated place. Provide for a tub to collect spills. Unauthorized persons are not admitted. Meet the legal requirements

Prohibitions on mixed storage :
 KEEP SUBSTANCE AWAY FROM:
 heat sources
 oxidizing agents
 (strong) acids
 (strong) bases

Containers : requirements : SPECIAL REQUIREMENTS:
 closing
 clean
 correctly labelled
 meet the legal requirements
 Secure fragile packagings in solid containers

Containers : material selection :
 SUITABLE MATERIAL:
 stainless steel
 aluminium
 synthetic material
 polyethylene
 glass
 stoneware/porcelain
 MATERIAL TO AVOID:
 iron
 copper
 zinc
 nickel

8. Exposure controls / Personal protection

Component	: formaldehyde
CAS no	: 50-00-0
Limit value name	: Formaldehyde
Momentary value (ppm)	: M
Momentary value (mg/m ³)	: M
MAK Short time value (ppm)	: 0.6/15'/4x
MAK Short time value (mg/m ³)	: 0.74/15'/4x
MAK Mutagenicity	: 5
MAK Carcinogenicity	: 4
MAK Reproduction	: C
MAK Sensitization skin	: S
MAC name	: Formaldehyde
MAC (mg/m ³)	: 0.15
MAC Short time (mg/m ³)	: 0.5
VME name	: Aldéhyde formique
VME (ppm)	: 0.5
VME Carcinogenicity	: C3
VLE (ppm)	: 1
TLV name	: Formaldehyde
TLV-C (ppm)	: 0.3
TLV Carcinogenicity	: A2
TLV Sensitization skin	: S

9. Physical and chemical properties

State of aggregation	: Liquid
Odour	: irritating/pungent odour
Colour	: Colourless
Flashpoint	: Not subject
Solubility in water	: completely miscible
Auto-ignition temperature	: Product resists ignition

10. Stability and reactivity

Reactivity hazard	: On heating: release of irritant gases/vapours. Upon combustion CO and CO ₂ are formed. Reacts violently with many compounds e.g.: with (strong) oxidizers. Unstabilized product polymerizes
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: - heat sources - oxidizing agents - (strong) acids - (strong) bases

11. Toxicological information

General toxicity : No data available on toxicity

EC category : Carc.Cat.3

12. Ecological information

Component : **formaldehyde**
BOD : 0,64 g O²/g substance
COD : 1,06 g O²/g substance
ThOD : 1,068 g O²/g substance
BOD (% ThOD) : 60 % ThOD
Log Pow : -0.78/0.0
WGK : 2
WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

13. Disposal considerations

Ecology - waste materials : Dehydrate - Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber - May be discharged to wastewater treatment installation - packaging containing residues of or contaminated by - dangerous substances
Disposal : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite - Scoop absorbed substance into closing containers - See "Material-handling" for suitable container materials - Carefully collect the spill/leftovers - Take collected spill to manufacturer/competent authority - Clean contaminated surfaces with an excess of water - Wash clothing and equipment after handling

14. Transport information

ADR transport regulations : Not subject
IMDG transport regulations : Not subject
ICAO transport regulations : Not subject

15. Regulatory information

Information about Chemical Safety Assessment is public domain

Symbol :



Xn

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S-phrases : S23 - Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S36/37 - Wear suitable protective clothing and gloves
S53 - Avoid exposure - obtain special instructions before use

EC category : Carc.Cat.3

Classified dangerous in accordance with Directives 67/548/EEC and 1999/45/EC

16. Other information

R-Phrases components

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R36/37/38 Irritating to eyes, respiratory system and skin
R40 Limited evidence of a carcinogenic effect
R43 May cause sensitisation by skin contact

SDS Version : 01
Review date SDS : 17/10/2008

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REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.