Material Safety Data Sheet According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

Version 02 Revision 18.10.2012 Printing date 18.10.2012

Useable for:

BA E-1900 5-HIAA ELISA

Single components with dangerous ingredients:

REF: BA E-1937 Methylation Buffer METHYL-BUFF REF: BA E-1939 Methylation Reagent METHYL-REAG

Not listed single components contains no hazardous substances in concentrations to be declared, a labelling is not required.

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

Version 02 Revision 18.10.2012 Printing date 18.10.2012

1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name: Methylation Buffer METHYL-BUFF

· Article number: BA E-1937

· **Application of the substance / the preparation:** laboratory reagent / Immunoassay The product is intended for professional use.

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Labor Diagnostika Nord GmbH & Co. KG

Am Eichenhain 1

48531 Nordhorn, Germany Phone +49 5921 8197 100 Fax +49 5921 8197 106 E-mail support@ldn.de

2 Hazards identification

· Classification of the substance or mixture

GHS02 flame H225 Highly flammable liquid and vapour.

GHS08 health hazard

H360 May damage fertility or the unborn child.

H370 Causes damage to organs.

 \Diamond

GHS07 H319 Causes serious eye irritation.

GHS06

H301 + H311 + H331 Toxic if swallowed, in contact with skin

or if inhaled

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

T; Toxic R61: May cause harm to the unborn child.

R23/24/25: Toxic by inhalation, in contact with skin and if

swallowed.

R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if

swallowed.

Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.

×

Xi; Irritant R36: Irritating to eyes.

F; Highly flammable R11: Highly flammable.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Information concerning particular hazards for human and environment:

No special remarkable hazards. Please observe the informations given in this safety data sheet

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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- · Label elements
- GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS02, GHS07, GHS08, GHS06
- · Signal word Danger
- Hazard-determining components of labelling: N,N-dimethylformamide
- · **Hazard statements** Highly flammable liquid and vapour. Causes serious eye irritation. May damage fertility or the unborn child.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures Preparation
- **Description:** Mixture consisting of the following components.

68-12-2	N,N-dimethylformamide	H312; H319; H332; H360 R20/21; R36; R61	50%
67-56-1	Methanol	H301 + H311 + H331; H370 R23/24/25; R39/23/24/25	50%

· Additional information

For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- Description of first aid measures
- · General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing** fresh air. Make victim drink ethanol. Call a doctor immediately. Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again.
- Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents

Water.

Water with full jet.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · **Protective equipment:** Mount respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles:

Store in a cool location.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s)

No further relevant information available.

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment
- General protective and hygienic measures

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes.

Avoid contact with the eyes and skin...

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The quality of the protective gloves must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles.



· Body protection: lab coat

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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9 Physical and chemical properties

Information on basic physical and chemical properties

· General Information

· Appearance:

· Form: Iquid

· Colour: According to product

Specification characteristic

Odour threshold: Not determinedpH-value at 20°C: Not determined

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Flash point:
undetermined
Not determined
Not determined

• Flammability (solid, gaseous) Not applicable

• Ignition temperature: 425°C

• **Decomposition temperature:** Not determined

Self-igniting:
 Danger of explosion:
 Product is not self-igniting.
 Not classified als explosive.

Relative density
Vapour density
Evaporation rate

Not determined
Not determined
Not determined

Solubility in / Miscibility with Water:
Segregation coefficient (n-octanol/water):
Viscosity:
Not determined
Adynamic:
Not determined
Not determined
Not determined
Not determined

· Solvent content:

· Organic solvents: 100 %

· Other information No further relevant information

available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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11 Toxicological information

Information on toxicological effects

- · Acute toxicity:
- LD/LC50 values relevant for classification:

68-12-2 N,N-dimethylformamide

OralLD507600 mg/kg (rat)DermalLD505000 mg/kg (rbt)InhalativeLC50/4 h9400 mg/l (mus)

67-56-1 Methanol

OralLD505628 mg/kg (rat)DermalLD5017100 mg/kg (rbt)InhalativeLC50/4 h85,26 mg/l (rat)

Primary irritant effect:

· Toxic if swallowed, in contact with skin or if inhaled

12 Ecological information

- · Toxicity
- · Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation

Must be specially treated adhering to official regulations.

- Uncleaned packaging:
- · Recommendation:

Dispose of packaging according to applicable local, state, and federal regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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14 Transport information

· UN-Number UN 1230

· **IMDG** II

· Environmental hazards:

• Marine pollutant: No

Special precautions for user
 Transport in bulk according to
 Not applicable.

Annex II of MARPOL73/78 and

the IBC Code

• **Transport/Additional**• **Information**Not dangerous according to the above specifications.

This product is part of a kit. Information in this section

refers to the kit as a whole.

· ADR/ AND / IMDG / IATA

• Remarks: No dangerous good in sense of this transport regulation.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- **GHS label elements** The product is classified and labelled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS02, GHS07, GHS08, GHS06
- · Signal word Danger
- · Hazard-determining components of labelling: N,N-dimethylformamide, Methanol

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

· Relevant phrases

H225 Highly flammable liquid and vapour.

H312 Harmful in contact with skin. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H360 May damage fertility or the unborn child.

H370 Causes damage to organs.

H301 + H311 Toxic if swallowed, in contact with skin or if inhaled

+ H331

R20/21 Harmful by inhalation and in contact with skin.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact

with skin and if swallowed.

R36 Irritating to eyes.

R61 May cause harm to the unborn child.

R11 Highly flammable.

· **Department issuing MSDS:** Safety Representative

· Contact: LDN

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

Version 02 Revision 18.10.2012 Printing date 18.10.2012

1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name: Methylation Reagent METHYLREAG

· Article number: BA E-1939

· **Application of the substance / the preparation:** laboratory reagent / Immunoassay The product is intended for professional use.

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Labor Diagnostika Nord GmbH & Co. KG

Am Eichenhain 1

48531 Nordhorn, Germany Phone +49 5921 8197 100 Fax +49 5921 8197 106 E-mail support@ldn.de

2 Hazards identification

Classification of the substance or mixture

GHS02 flame H225 Highly flammable liquid and vapour.

GHS08 health hazard H302 Harmful if swallowed.

H370 Causes damage to organs.

GHS06 H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H350 May cause cancer

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

T; Toxic R45 May cause cancer.

R22 Also harmful if swallowed. R26 Also very toxic by

inhalation.

R39/26 Also very toxic: danger of very serious irreversible

effects through inhalation.

F; Highly flammable R11 Highly flammable.

R19 May form explosive peroxides.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Information concerning particular hazards for human and environment:

No special remarkable hazards. Please observe the informations given in this safety data sheet

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS02, GHS08, GHS06
- · Signal word Danger

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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3 Composition/information on ingredients

- · Chemical characterization: Mixtures Preparation
- · **Description:** Trade secret (Reagent mixture)

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H370 Causes damage to organs.

H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H350 May cause cancer

R45 May cause cancer.

R22 Also harmful if swallowed. R26 Also very toxic by inhalation.

R39/26 Also very toxic: danger of very serious irreversible effects through inhalation.

R11 Highly flammable.

R19 May form explosive peroxides.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

4 First aid measures

- Description of first aid measures
- · General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing** fresh air. Make victim drink ethanol. Call a doctor immediately. Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again.
- Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents Water.

Water with full jet.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: Mount respiratory protective device.

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

Version 02 Revision 18.10.2012 Printing date 18.10.2012

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Prevent seepage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles:

Store in a cool location.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s)

No further relevant information available.

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

Version 02 Revision 18.10.2012 Printing date 18.10.2012

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes.

Avoid contact with the eyes and skin...

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The quality of the protective gloves must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Tightly sealed goggles.



· Body protection: lab coat

specification

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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9 Physical and chemical properties

- · Information on basic physical and chemical properties
- General Information

· Appearance:

· Form: Iquid

· Colour: According to product

• Odour: characteristic

Odour threshold: Not determinedpH-value at 20°C: Not determined

· Change in condition

Melting point/Melting range: undetermined
 Boiling point/Boiling range: Not determined

• Flash point: -35 °C - closed cup

· Flammability (solid, gaseous) no data available

• Ignition temperature: no data available

Decomposition temperature:
 Self-igniting:
 no data available

• Danger of explosion: no data available

Relative density no data available
 Vapour density no data available

• Evaporation rate no data available

Solubility in / Miscibility with Water:
Segregation coefficient (n-octanol/water):
no data available
no data available

Viscosity: no data available
 dynamic: no data available
 kinematic: no data available

Solvent content:
 Organic solvents:
 no data available

• Other information No further relevant information

available.

10 Stability and reactivity

- Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

Version 02 Revision 18.10.2012 Printing date 18.10.2012

11 Toxicological information

Information on toxicological effects

- · Acute toxicity:
- LD/LC50 values relevant for classification:

68-12-2 N,N-dimethylformamide

Oral	LD50	7600 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rbt)
Inhalative	LC50/4 h	9400 mg/l (mus)

67-56-1 Methanol

OralLD505628 mg/kg (rat)DermalLD5017100 mg/kg (rbt)InhalativeLC50/4 h85,26 mg/l (rat)

Primary irritant effect:

· May cause cancer. Also harmful if swallowed. Also very toxic by inhalation. Also very toxic: danger of very serious irreversible effects through inhalation.

12 Ecological information

- · Toxicity
- · Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · **Mobility in soil** No further relevant information available.
- Additional ecological information:
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation

Must be specially treated adhering to official regulations.

- Uncleaned packaging:
- · Recommendation:

Dispose of packaging according to applicable local, state, and federal regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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14 Transport information

· **UN-Number** ADR/RID: 3383 IMDG: 3383 IATA: 3383

· UN proper shipping name ADR/RID: TOXIC BY INHALATION LIQUID, FLAMMABLE

IMDG: TOXIC BY INHALATION LIQUID, FLAMMABLE IATA: TOXIC BY INHALATION LIQUID, FLAMMABLE

Transport hazard class(es)
 Packing group
 IMDG

· Environmental hazards:

· Marine pollutant: No

Special precautions for user Not applicable.

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- **GHS label elements** The product is classified and labelled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS02, GHS07, GHS08, GHS06
- · Signal word Danger

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

· Relevant phrases

H224 Extremely flammable liquid and vapour.

H302 Harmful if swallowed.

H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H370 Causes damage to

R12 Extremely flammable.

R19 May form explosive peroxides.

R22 Harmful if swallowed.

R26 Very toxic by inhalation.

R39/26 Very toxic: danger of very serious irreversible effects through inhalation.

R45 May cause cancer.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

- · Department issuing MSDS: Safety Representative
- · Contact: LDN