

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740404.200
 Printing Date: 27.02.2020

NucleoZOL (200 mL)
 Date of Issue: 15.03.2019

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Section 1: Identification

1.1 Product Identifier / Product Name

REF 740404.200
 Product Name NucleoZOL (200 mL)
 -
 1 x 200 mL NucleoZOL

1.2 Relevant identified Uses of the Substance or Mixture and Uses advised against

Relevant identified uses
 Product for Analytical Use.
 The Exposure scenario is integrated into sections 1-16.
Uses advised against
 not described

1.3 Details of the Supplier and of the Safety Data Sheet

Manufactured by:
 MACHEREY-NAGEL GmbH & Co. KG
 Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY
 Tel.: +49 2421 969 0
 E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 Emergency Telephone Number

For Chemical Emergency
 Spill, Leak, Fire, Exposure, or Accident
 Call CHEMTREC Day or Night (CCN685047)
 Within USA and Canada: **1-800-424-9300**
 Outside USA and Canada: **+1 703-527-3887** (collect calls accepted)

You find our current versions of SDS (22 languages) in Internet: <http://www.mn-net.com/SDS>

Section 2: Hazard(s) Identification

2.1 Classification of the Substance(s) or Mixture(s)

200 mL NucleoZOL



Signal Word DANGER

Hazard Identification	Hazard Classes/Categories
H301	Acute Tox. 3 oral
H302	Acute Tox. 4 oral
H311	Acute Tox. 3 derm.
H314	Skin Corr. 1B
H331	Acute Tox. 3 inh.
H341	Muta. 2
H373	STOT RE 2
H412	Aquatic Chronic 3

2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

According the implementation of GHS immediate packages only must be labelled with product identifier(s), GHS symbol(s), signal word, manufacturer name and phone number (OSHA's interpretation of HCS 2012).

Harmful chemicals/mixtures with signal word: **WARNING** must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2) / **until 100 mL** (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A.

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Signal Word: DANGER

H301, H311, H314, H331, H341, H373, H412

Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Toxic if inhaled. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

P201, P260sh, P273, P280sh, P301+310, P303+361+353, P305+351+338, P405

Obtain special instructions before use. Do not breathe dust/vapors. Avoid release to the environment. Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

2.3 Other Hazards

Possible Hazards from physicochemical Properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. For guanidine thiocyanate CAS 593-84-0: The properties H314, H332 «Causes severe skin burns and eye damage. Harmful if inhaled.» are not relevant, because the mixture solution is buffered to pH 4-9. ---

Information pertaining to particular Risks to Human and possible Symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapors especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Cause severe after oral intake, inhalation of vapors, skin contact, impairments of health or can lead to death even when only ingested in small quantities. Cause after oral intake, impairments of health when ingested in small quantities. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. -

Information pertaining to particular Risks to the Environment

Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.

PBT: not applicable

vPvB: not applicable

Other Hazards

Section 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

200 mL NucleoZOL

Chemical:	<i>phenol</i>	CAS No.:	108-95-2
Classification:	H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H314, Skin Corr. 1B, H331, Acute Tox. 3 inh., H341, Muta. 2, H373, STOT RE 2		
Chemical Formula:	C ₆ H ₆ O; C ₆ H ₅ -OH		
Synonyms:	carbolic acid, hydroxybenzene, phenyl alcohol, phenyl hydroxide		
TSCA Inventory:	listed		
RTECS:	SJ3325000	MFCID:	-
EC No.:	203-632-7	Indice No.:	604-001-00-2
Weight Percent:	30 - <60 %		
acc. GHS:	H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H314, Skin Corr. 1B, H331, Acute Tox. 3 inh., H341, Muta. 2, H373, STOT RE 2		

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Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
 Classification: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1B, H332, Acute Tox. 4 inh., H412, Aquatic Chronic 3
 Chemical Formula: C₂H₆N₄S
 Synonyms: guanidine rhodanide
 TSCA Inventory: listed
 RTECS: XL1225000 MFCD: 00013027
 EC No.: 209-812-1 Indice No.: 615-004-00-3
 Weight Percent: 30 - <45 %
 acc. GHS: H302, Acute Tox. 4 oral, H412, Aquatic Chronic 3

Chemical: *color dye(s)* CAS No.: -
 Classification: No criteria for classification or naming of chemical is not required.
 TSCA Inventory: all listed, <1%
 Weight Percent: < 0,10 %
 acc. GHS: The criteria for classification are not fulfilled.

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of Hazard and Precaution phrases: see section 16.1

Section 4: First-Aid Measures

4.1 Description of First-Aid Measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

4.1.3 After INHALATION of Vapors

After inhalation of foam or vapor fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function.

4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralize it. Contact medical advice for possible consequences.

4.2 Most important Symptoms and Effects, both acute and delayed

Chronic Effects: May cause damage to organs through prolonged or repeated exposure.

CMR Effects: Suspected of causing genetic defects. ---

4.3 Indication of any immediate Medical Attention and Special Treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive substance. Further treatment must be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTRESS ensure that the patient inhales oxygen. **TOXIFICATION:** Treat symptomatically. Secure the breathing, heart and circulatory function. Remove the substance quickly from the body. Mechanically induce vomiting or ensure the patient eats medicinal charcoal compressed tablets or drinks aluminium oxide drug suspensions. In order to ensure rapid passage through the colon (administer 2 tablespoons of dissolved Glauber's salt). Alleviation of pain, if necessary sedation. Shock treatment. Administer a prophylaxis to counter pulmonary oedema. Inform patient respectively further measures and the possibility of long-term damages. ---

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Section 5: Fire-Fighting Measures

5.1 Extinguishable Media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like WATER FOG, WATER SPRAY, alcohol-resistant FOAM, DRY CHEMICAL, CARBON DIOXIDE can be used.

5.2 Special Hazards arising from the Substance or Mixture

Formation of hazardous and caustic vapor-air mixtures possible. ---

5.3 Advice for Firefighters

No, for listed product. Product package burns like paper or plastic. Spray any vapors released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional Information

Danger for environment **only in the event of a large-scale leakage** or formation of hazardous substances. ---

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedure

Do not breathe vapors. Wear suitable protective gloves (see 8.2.2). Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.2 Environmental Precautions

not necessary, contains only small amounts of these substances

6.3 Methods and Material for Containment and Cleaning up

Bind any escaping liquid with inert absorbent.

And dispose in accordance to local regulations for the disposal of hazards. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into sewer.

6.4 Reference to other Sections

see information in section 5.4 ---

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

7.2 Conditions for Safe Storage, including any Incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Products containing also toxic substances should be kept locked up.

Storage class (VCI): 6.1A
Water hazard class (DE): 3

7.2.1 Conditions for Safe Storage, including any Incompatibilities

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 77°F (25 °C), away or preferably separate from substances with which a hazardous reaction could take place, so that they are not immediately accessible to outside parties. Use inbreakable container for transport of glass bottles.

7.3 Specific End Use(s)

Product for analytical use.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

200 mL NucleoZOL

Chemical: *phenol*

CAS No.: 108-95-2

PNEC(fresh water): 0.0077 mg/L
PNEC = Predicted No Effected Concentration

NIOSH: [skin]TWA 5 ppm / 19 mg/m³; C 15.6 ppm / 60_{15min} mg/m³

NIOSH STEL: 15.6 ppm / 60_{15 min} mg/m³

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [skin] TWA 5 ppm / 19 mg/m³

EU value: 2 ppm / 7.8 mg/m³

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Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
 DNEL: [inh] 1092 µg/m³
DNEL = Derived No-Effect Level (for workers)
 PNEC_(fresh water): 42.4 µg/L
PNEC = Predicted No Effect Concentration
 NIOSH: not listed
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period
 OSHA: not listed
 Chemical: *color dye(s)* CAS No.: -

8.2 Exposure Controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory Protection

Use for open access of these substances for example a vapor/dust respirator, class A/AX. No additional recommendations.

8.2.2 Hand Protection

Yes, gloves (permeation time >30 min - level 2), consist of PVC, Natural latex, Neopren, or Nitril. Use for short times chemical resistant Latex gloves f.ex. with code EN 374-3 level 1.

8.2.3 Eye/Face Protection

Yes, Splash Goggles or Face Protection.

8.2.4 Skin Protection

Recommended to avoid clothing damage, and to avoid contamination with these hazards.

8.2.5 Hygiene Measures

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

200 mL NucleoZOL

a) Appearance: liquid	Color: blue	b) Odor: aromatic
c) Odor Threshold:	data not available	
d) pH:	data not available	
e) Melting Point:	data not available	
f) Boiling Point:	data not available	
g) Flash Point:	data not available	
h) Evaporation Rate _(ether=1) :	data not available	
i) Flammability (solid, gas):	data not available	
j) Explosive Limits:	data not available	
k) Vapor Pressure (68°F):	>0.46 _{25°C} hPa	
l) Vapor Density _(air=1) :	data not available	
m) Specific Gravity:	data not available	
n) Soluble in Water:	data not available	
o) Partition Coefficient (o-w):	data not available	
p) Autoignition Temperature:	data not available	
q) Decomposition temperature:	data not available	
r) Viscosity:	data not available	
s) Explosive properties:	data not available	
t) Oxidizing properties:	---	

9.2 Other Information

Data for the other parameters of the mixtures are not available.

Relevant Properties of Substance Group

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Section 10: Stability and Reactivity

10.1 Reactivity

No further data available.

10.2 Chemical Stability

No known instability.

10.3 Possibility of Hazardous Reactions

Can react violently with organic material. Can form very reactive substances with oxidizing agents. Possibility: Contact with acids liberates toxic gas. No further data available.

10.4 Conditions to avoid

Not necessary. ---

10.5 Incompatible Materials

Avoid contact with strong acids or alkalines. ---

10.6 Hazardous Decomposition Products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

Following information is valid for pure chemicals. Quantitative data on the toxicity of this product are not available.

200 mL NucleoZOL

Chemical: *phenol* CAS No.: 108-95-2
 TSCA Inventory: listed
 ACGIH: 19 ppm
 Exposure Routes: inhalation, skin absorption, ingestion, skin and/or eye contact
 Target Organs: Eyes, skin, respiratory system, liver, kidneys
 Symptoms: irritation eyes, nose, throat; anorexia, weight loss; lassitude (weakness, exhaustion), muscle ache, pain; dark urine; cyanosis; liver, kidney damage
 LD50_{orl rat}: 317 mg/kg
 LC_{LoWorl hmn}: 140 mg/kg
 LC50_{inh rat}: 316 mg/m³
 LD50_{drm rat}: 669 mg/kg
 LD50_{orl mus}: 270 mg/kg
 Acute Effects: Cause severe after oral intake, inhalation of vapors, skin contact, impairments of health or can lead to death even when only ingested in small quantities.
 Chronic Effects: May cause damage to organs through prolonged or repeated exposure.
 Carcinogenic Effects: Suspected of causing genetic defects.
 EU carcinogen: Germ Cell Mutagenicity cat. 2

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
 TSCA Inventory: listed California Prop. 65 List: not listed
 Canada CEPA 1999: DSL yes
 LD50_{orl rat}: 593 mg/kg
 LC50_{drm rbt}: >2000 mg/m³
 LC50_{ihl rat}: [4h] 5.319 mg/L
 LD50_{ipr mus}: 300 mg/kg
 Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.
 Chemical: *color dye(s)* CAS No.: -
 TSCA Inventory: all listed, <1%

Section 12: Ecological Information

12.1 Toxicity

Following information is valid for pure chemicals.

200 mL NucleoZOL

Chemical: *phenol* CAS No.: 108-95-2
 Avoid contact of chemical/mixture to environment.
 PNEC_(fresh water): 0.0077 mg/L
 PNEC = Predicted No Effect Concentration
 LC50_{daphnia magna/48h}: EC10_{16d}: 0,46 mg/L



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LC50 _{fish/96h} :	8.9 mg/L
EC50 _{daphnia/48h} :	4.24-10.7/ 10.2-15.5 mg/L
EC50 _{pseudokirchneriella subcapitata/72h} :	EC50 _{96h} : 46.42 mg/L
IC50 _{scenedesmus quadricauda/72h} :	EC50: 187-279 mg/L
Partition Coefficient (o-w):	1.47

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
 Harmful to aquatic life with long lasting effects. Avoid contact of chemical/mixture to environment.
 Environmental hazards must not be labelled with P phrases until 125 mL (EU-CLP 1272/2008 Annex I - 1.5.2).
 PNEC_(fresh water) : 42.4 µg/L
 PNEC = Predicted No Effect Concentration

LC50 _{fish/96h} :	[4d] 89.1 mg/L
EC50 _{daphnia/48h} :	42.4 mg/L
IC50 _{scenedesmus quadricauda/72h} :	130 mg/L
EC10 _{pseudomonas putita/16h} :	[10d] 200 mg/L
Partition Coefficient (o-w):	[pH 5.1] -1.11

Chemical: *color dye(s)* CAS No.: -

- 12.2 Persistence and Degradability**
not necessary
- 12.3 Bioaccumulative Potential**
not necessary
- 12.4 Mobility in Soil**
not necessary
- 12.5 Results of PBT and vPvB Assessment**
no data available
- 12.6 Other Adverse Effects**
no additional data available

Section 13: Disposal Considerations

Do not collect in acidic waste. May form toxic gases.
 Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (RCRA Code D002/D003, EU waste code number 16 05 06). Close container tightly.

- 13.1 Waste Treatment Methods**
 Normally it is possible to empty small amounts (diluted!) into drains. Empty containers of corrosive reagents prior to disposal, rinse with water.
 Dispose of contents/container to regulated waste treatment.

Section 14: Transport Information

14.1. UN/NA: 2922	14.2. Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (phenol solution)
14.3. Hazard Class: 8	Sub-Risks: 6.1 14.4. Packing Group: II
<i>Transportation by Road</i>	
Classification code: CT1	
Limited Quantity: 1 L	Tunnel restriction code: E
Excepted Quantity: E 2	
<i>Air Transportation</i>	
PAX: 851	max. weight PAX: 1 L
CAO: 855	max. weight CAO: 30 L
<i>Maritime Transport</i>	
EmS: F-A, S-B	Storage Category: B

- 14.5 Environmental Hazards**
none, contains only small quantities of hazardous substances, contains only small amounts of these substances
- 14.6 Special Precautions for User**
not necessary

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14.7 Transport in Bulk according to Annex II of MARPOL and the IBC Code
 not applicable

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"
<https://www.osha.gov/dsg/hazcom/ghs.html>
 29 CFR 1910.1200 Hazard communication.
 NIOSH Pocket Guide to Chemical Hazards
 NIOSH Workplace Safety & Health Topics
 TSCA Inventory

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

Canada

Canada CEPA 1999 - Domestic Substances List (DSL), List of Toxic Substances (Schedule 1)

MN Leaflet/User manual, also see www.mn-net.com

15.2 Chemical Safety Assessment
 not necessary for these small amounts ---

Section 16: Other Information

16.1 List of Hazard and Precaution Phrases

16.1.1 List of relevant H Phrases

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H331 Toxic if inhaled.
- H341 Suspected of causing genetic defects.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

16.1.2 List of relevant P Phrases

- P201 Obtain special instructions before use.
- P260sh Do not breathe dust/vapors.
- P261sh Avoid breathing dust/vapors.
- P264W Wash with water thoroughly after handling.
- P273 Avoid release to the environment.
- P280sh Wear protective gloves/eye protection.
- P301+310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P302+352 IF ON SKIN: Wash with plenty of water.
- P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P311 Call a POISON CENTER/doctor.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- P403+233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

16.2 Training Advice

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

16.3 Recommended Restriction on Use

Only for Professional User.
 Look about employee restrictions for young people!
 Look about employee restrictions for pregnant women and nursing women!
 An individual package of this product or test kit has a moderate hazardous potential.



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16.4 Further Information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.
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16.5 Sources of Key Data

GHS: EU Regulation 1272/2008/EC on Classification, Labelling and Packaging of Substances and Mixtures, amending and repealing EU Directives 67/548/EEC and 1999/45/EC, and amending EU Regulation 1907/2006/EC
 SDS: EU Regulation 453/2010/EU REACH - Requirements for the Compilation of Safety Data Sheets
 NIOSH Occupational Carcinogen List
 EU Directive 2004/37/EC on the Protection of Workers from the Risks related to Exposure to Carcinogens or Mutagens at Work
 KÜHN, BIRETT (German), Data Sheets of Hazardous Substances

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of European Regulation 1221/2015/EU

You find our current Versions of SDS in Internet:
<http://www.mn-net.com/SDS> [U.S. English]