

* **Elektroylt Spezial**

Date revised: 05.03.2024

10007289999

Version: 14 / ENG

Master No. M-035

Print date: 05.03.2024

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

1.1. Product identifier

Trade name

Elektroylt Spezial

Registration no.

EC No.:	231-633-2
REACH-Registration no.	01-2119485924-24-XXXX
CAS No.	7664-38-2
Index no.	015-011-00-6

UFI

UFI: 493C-S0MG-400W-D66T

Use of the substance/mixture

Intermediate, Laboratory chemicals, Descaling compound/ Scale solvent, Corrosion inhibitors, pH-corrective agent, Processing aid, Degreasing agent, Metal surface treatment, Industrial use

1.3. Details of the supplier of the safety data sheet

Address

Reuter GmbH & Co.KG
Schimmelbuschstraße 9e
DE 40699 Erkrath
Telephone no. +49 211 730604 30

E-mail address mail@reuter.works

1.4. Emergency telephone number

+49 171 5450200

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Met. Corr. 1	H290
Acute Tox. 4	H302
Skin Corr. 1B	H314

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008**Hazard pictograms****Signal word**

Danger

Hazard statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Further supplemental information

Restricted to professional users

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008)****Phosphoric acid**

CAS No.	7664-38-2		
EINECS no.	231-633-2		
Registration no.	01-2119485924-24-XXXX		
Concentration	45 - 55		%
Met. Corr. 1	H290		
Acute Tox. 4	H302		
Skin Corr. 1B	H314		

Concentration limits (Regulation (EC) No. 1272/2008)

	Skin Corr. 1B	H314	>= 25
	Eye Irrit. 2	H319	>= 10 < 25
	Skin Irrit. 2	H315	>= 10 < 25
cATpE	oral	500	mg/kg

Complete text of H-phrases in Chapter 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove affected person from danger area, lay him down. Remove contaminated, soaked clothing immediately and dispose of safely. Irregular breathing/no breathing: artificial respiration. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.

After skin contact

Wash immediately with plenty of water for several minutes. Summon a doctor immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Causes burns.

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4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Keep under medical supervision for at least 48 hours.

Hints for the physician / hazards

Risk of pneumonia; Risk of stomach perforation

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Water spray jet, Dry powder, Foam, Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureReactions with metals, with evolution of hydrogen. In the event of fire the following can be released: Phosphorus oxides (e.g. P₂O₅); Phosphorus trihydride (phosphine)**5.3. Advice for firefighters**

Use self-contained breathing apparatus. Wear full protective suit.

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Neutralization agent use. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Keep container tightly closed. Handle and open container with care. Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). When diluting, always stir product into water.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Provide acid-resistant floor. Keep only in original packaging.

Do not store together with: Alkalies, Reducing agents, Metals

Storage class according to TRGS 510

8B

Non-combustible corrosive hazardous substances

Keep container tightly closed and in a well-ventilated place. Protect from heat/overheating.

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7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****phosphoric acid ... %**

List	TRGS 900
Type	AGW
Long term exposure limit	2 mg/m ³
Maximum limit value: 2(l)	
Pregnancy group: Y	
Remarks: DFG, EU, AGS	

phosphoric acid ... %

List	IOELV
Type	IOELV
Long term exposure limit	1 mg/m ³
Short term exposure limit	2 mg/m ³

Derived No/Minimal Effect Levels (DNEL/DMEL)**Phosphoric acid**

DNEL				
Conditions	Worker	Long term	inhalative	Local effects
Concentration	1	mg/m ³		
DNEL				
Conditions	General Population	Long term	inhalative	Local effects
Concentration	0,36	mg/m ³		
DNEL				
Conditions	Worker	Acute	inhalative	Local effects
Concentration	2	mg/m ³		
DNEL				
Conditions	Worker	Long term	inhalative	Systemic effects
Concentration	10,7	mg/l		
DNEL				
Conditions	General Population	Long term	oral	Systemic effects
Concentration	0,1	mg/kg		
DNEL				
Conditions	General Population	Long term	inhalative	Systemic effects
Concentration	4,57			

8.2. Exposure controls**General protective and hygiene measures**

Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Keep separated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. In case of brief exposure or low pollution

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use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Short term: filter apparatus, combination filter E-P2; Short term: filter apparatus, combination filter B-P2

Hand protection

Appropriate Material	Chloroprene		
Material thickness	>= 0,6	mm	
Breakthrough time	>= 480	min	

Eye protection

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

Physical state	liquid
Colour	colourless
Odour	odourless

Melting point/freezing point

Value	appr. -18	°C
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Initial boiling point and boiling range

Value	appr. 135	°C
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Flammability (solid, gas)

Not ignitable

Upper/lower flammability or explosive limits

Remarks	Not applicable
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Flash point

Remarks	Not applicable
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Auto-ignition temperature

Remarks	Not applicable
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Decomposition temperature

Remarks	No data available
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pH value

Value	< 1		
Concentration/H ₂ O	23	g/l	
Temperature	20	°C	

Viscosity

Remarks	No data available
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Solubility(ies)

Medium	Water
Remarks	Completely miscible

Partition coefficient: n-octanol/water

Remarks	Not applicable
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Vapour pressure

Value	0,04	hPa
Temperature	20	°C

Density

Value	1,58	g/cm ³
Temperature	20	°C

Vapour density

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Value 3,4

9.2. Other information**Odour threshold**

Remarks No data available

Evaporation rate

Remarks No data available

Explosive properties

Remarks This product is not potentially explosive.

Oxidising properties

evaluation not oxidizing

SECTION 10: Stability and reactivity**10.1. Reactivity**

see Possibility of hazardous reactions

10.2. Chemical stability

No decomposition if used as prescribed.

10.3. Possibility of hazardous reactions

Corrosive to metals. Reactions with reducing agents. Reactions with alkalis. Reactions with metals, with evolution of hydrogen.

10.4. Conditions to avoid

To avoid thermal decomposition do not overheat. Protect from light.

10.5. Incompatible materials

Reducing agents, metals, Alkalis

10.6. Hazardous decomposition productsPhosphorus oxides (e.g. P₂O₅), Hydrogen**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity (Components)****Phosphoric acid**

Species	rat		
LD50	>= 300	2000	mg/kg
Method	OECD 423		
Species	rat		
NOAEL	250		mg/kg

Acute dermal toxicity (Components)**Phosphoric acid**

Species	rabbit		
LD50	2740		mg/kg

Acute inhalative toxicity (Components)**Phosphoric acid**

No information available.

Skin corrosion/irritation

evaluation	corrosive
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Corrosive action on the skin and mucous membrane.

Serious eye damage/irritation

evaluation	strongly corrosive
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Sensitization (Components)

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Phosphoric acid

not investigated - substance is corrosive

Mutagenicity (Components)**Phosphoric acid**

Based on available data, the classification criteria are not met.

Reproduction toxicity (Components)**Phosphoric acid**

Based on available data, the classification criteria are not met.

Carcinogenicity (Components)**Phosphoric acid**

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)**Single exposure**

May cause respiratory irritation.

Repeated exposure

No data available

Aspiration hazard

No information available.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Strong caustic effect in the mouth and throat and danger of perforation of the esophagus and stomach.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****Phosphoric acid**

Species	Gambusia affinis		
LC50	138		mg/l
Duration of exposure	96	h	

Daphnia toxicity (Components)**Phosphoric acid**

Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 202		
Remarks	Static system		
Species	Daphnia magna		
NOEC	56		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Algae toxicity (Components)**Phosphoric acid**

Species	Desmodesmus subspicatus		
EC50	> 100		mg/l
Duration of exposure	72	h	
Method	OECD 201		
Remarks	Static system		
Species	Desmodesmus subspicatus		

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NOEC	100		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)**Phosphoric acid**

Species	activated sludge		
EC50	270		mg/l

12.2. Persistence and degradability**Biodegradability (Components)****Phosphoric acid**

Inorganic product, cannot be eliminated from the water by biological purification processes.

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

Remarks Not applicable

12.4. Mobility in soil

Will not adsorb on soil.

12.5. Results of PBT and vPvB assessment**General information**

No valuation for anorganic substances necessary.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**Behaviour in environment compartments**

Harmful effect due to pH shift. Can contribute to eutrophication of waters.

Behaviour in sewers [waste treatment plants]

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Do not allow to enter drains or water courses.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1805	1805	1805
14.2. UN proper shipping name	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	III	III	III
Label			
14.5. Environmental hazards	-	-	-
Limited Quantity	5 l	5 l	
Transport category	3		
Tunnel restriction code	E		
Hazard id. no.	80		
EmS		F-A, S-B	

Information for all modes of transport**14.6. Special precautions for user**

No information available.

Other information**14.7 Maritime transport in bulk according to IMO instruments**

No data available

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**Water Hazard Class WGK 1
(Germany)

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

VOC-Content according to directive 2010/75/EU

VOC (EU) 0 %

Classification according to Betriebssicherheitsverordnung (BetrSichV)

not applicable

Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

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Registration status**Phosphoric acid**

AICS (Australian Inventory of Chemical Substances)	listed
DSL (Canada)	listed
IECSC (China)	listed
EINECS	listed
ENCS (Japan)	listed
ECL (Korea)	listed
PICCS (Philippines)	listed
TSCA (USA)	listed
POPs	not listed

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Met. Corr. 1	H290	On basis of test data
Acute Tox. 4	H302	Calculation method
Skin Corr. 1B	H314	Calculation method

Hazard statements listed in Chapter 2/3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B

Abbreviations

AC: Article Category
 ACGIH: American Conference of Governmental Industrial Hygienists
 ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ADNR: Accord européen relatif au transport international des marchandises dangereuses par navigation sur le Rhin
 ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 AGW: Arbeitsplatzgrenzwert
 AICS: Australian Inventory of Chemical Substances
 AOX: adsorbable organically bound halogens
 ARW: Arbeitsplatzrichtwert (Germany)
 ASTM: American Society for Testing And Materials
 ATE: acute toxicity estimates
 ATP: Adaptation to technical and scientific progress
 AWsV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Germany)
 BAR: Biologischer Arbeitsstoff-Referenzwert
 BCF: bioconcentration factor
 BetrSichV: Betriebssicherheitsverordnung (Germany)
 BG: Berufsgenossenschaft (Germany)
 BGW: Biologischer Grenzwert
 BLW: Biologischer Leitwert
 BOD: biochemical oxygen demand
 CAS: Chemical Abstracts Service
 cATpE: converted acute toxicity point estimate
 CEA: Comité Européen des Assurances
 CEFIC: European Chemical Industry Council

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CESIO: Comité Européen des Agents de Surface et leurs Intermédiaires Organiques
ChemG: Chemikaliengesetz (Germany)
CMR: Cancerogen Mutagen Reprotoxic
COD: chemical oxygen demand
DFG: Deutsche Forschungsgemeinschaft
DIN: german industry standard
DMEL: Derived minimal effect level
DNEL: Derived no effect level
DOC: dissolved organic carbon
DSL: Canada Domestic Substances List
EAK: Europäischer Abfallkatalog
EbC: inhibitory concentration of growth
EC: effective concentration
EC: European Community
ECETOC: European Centre For Ecotoxicology and toxicology of Chemicals
ECHA: European Chemicals Agency
EEC: European Economic Community
EG: Europäische Gemeinschaft
EH40: List of approved workplace exposure limits
EINECS: European Inventory of Existing Commercial Chemical Substances
EKA: Expositionsäquivalente für krebserzeugende Arbeitsstoffe
EL: effect level
ELINCS: European List of Notified Chemical Substances
EmS: Emergency Schedules
EN: european standards
ENCS: Japanese Existing and New Chemical Substances Inventory
ERC: Environmental Release Category
ErC: inhibitory concentration of the growth rate
EU: European Union
EWG: Europäische Wirtschaftsgemeinschaft
FDA: Food and Drug Administration
FMVSS: National Highway Traffic Safety Administration
GefStoffV: Gefahrstoffverordnung
GGVSee: Gefahrgutverordnung See
GHS: Globally Harmonized System of classification and Labelling of Chemicals
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
IC: inhibitory concentration
ICAO: International Civil Aviation Organization
IECSC: Chinese Chemical Inventory of Existing Chemical Substances
IMDG: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
INCI: International Nomenclature of Cosmetic Ingredients
IRPTC: International Register of Potentially Toxic Chemicals
ISO: International Organization for Standardization
IUCLID: International Uniform Chemical Information Database
Cat: category
KBwS: Kommission zur Bewertung wassergefährdender Stoffe (Germany)
KECI: Korea Existing Chemicals Inventory
LC: Lethal concentration
LD: Lethal dose
LDLo: lethal dose low
LGK: storage category
LL: Lethal level
LLC: Lowest lethal concentration
NCI: National Chemicals Inventory
LOAEL: Lowest observed adverse effect level
LOEC: Lowest observed effect concentration

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LOEL: Lowest observed effect level
 Log pow: logarithm of the distribution coefficient n-octanol / water
 LQ: limited quantity
 MAC: Maximale aanvaarde concentratie (Netherlands)
 MAK: Maximale Arbeitsplatz-Konzentration
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)
 MEL: Maximum exposure limits
 MITI: Ministry of International Trade and Industry (Japan)
 n.a.g.: nicht anders genannt
 NATEC: Naval Air Technical Data and Engineering Service Command
 NCI: National Chemicals Inventory
 NLP: No-longer Polymer
 NOAEC: No observed adverse effect concentration
 NOAEL: no observable adverse effect level
 NOEC: No observable effect concentration
 NOEL: No observable effect level
 NOELR: no observable effect loading rate
 NZIOC: New Zealand Inventory of Chemicals
 OECD: Organisation for Economic Co-operation and Development
 OEL: Occupational exposure limit
 OELV: Occupational exposure limit value
 OES: Occupational exposure standards
 PBT: Persistent, Bioaccumulative and Toxic
 PC: Product Category
 PEC: Predicted environmental concentration
 PICCS: Philippine Inventory of Chemicals and Chemical Substances
 PNEC: predicted no effect concentration
 PNEC: Predicted no effect concentration
 POPs: Persistent organic pollutants
 pOW: Octanol-water partition coefficient
 PROC: Process Category
 REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
 RTECS: Registry of Toxic Effects of Chemical Substances
 SAE: Society of Automotive Engineers
 STP: Sewage treatment plant
 SU: Sector of Use
 SUVA: Schweizerische Unfallversicherungsanstalt
 SVHC: Substances of very high concern
 TA Luft: Technische Anleitung zur Reinhaltung der Luft
 TCCL: Toxic Chemical Control Law
 ThOD: theoretical oxygen demand
 TRA: targeted risk assessment
 TRG: Technische Regeln Druckgase (Germany)
 TRgA: Technische Regeln für gefährliche Arbeitsstoffe(Germany)
 TRGS: Technische Regeln für Gefahrstoffe
 TRK: Technische Richtkonzentration
 TSCA: Toxic Substances Control Act (USA)
 UN: United Nations
 VbF: Verordnung über brennbare Flüssigkeiten
 VCI: Verband der Chemischen Industrie e.V.
 VDE: Verband der Elektrotechnik, Elektronik und Informtaionstechnik e.V.
 VDI: Verein Deutscher Ingenieure
 VLEP: Valeurs Limites d'exposition Professionnelle
 VOC: Volatile Organic Compound
 vPvB: Very persistent and very bioaccumulative
 VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe
 WEL: Workplace exposure limit

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WGK: water hazard class (Germany)

WHO: World Health Organization

WoE: Weight of Evidence

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.