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

1.1 Product identifier

Chloride

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Reagent for analysis of water

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Pool-i.d. GmbH
Daimlerstrasse 20
76344 Eggenstein / GERMANY
Phone +49(0)721-782029-0
Fax +49(0)721-782029-11
Homepage www.pool-id.com
E-mail info@pool-id.com

Address enquiries to

Technical information info@pool-id.com

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Carc. 1B: H350 May cause cancer.
Muta. 1B: H340 May cause genetic defects.
Repr. 1B: H360FD May damage fertility. May damage the unborn child.
Skin Corr. 1B: H314 Causes severe skin burns and eye damage.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Aquatic Acute 1: H400 Very toxic to aquatic life.
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.
Acute Tox. 4: H312 Harmful in contact with skin.

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

T, carcinogen category 2 - R 45: May cause cancer.
T, mutagen category 2 - R 46: May cause heritable genetic damage.
T, toxic for reproduction category 2 - R 60: May impair fertility.
T, toxic for reproduction category 2 - R 61: May cause harm to the unborn child.
Xn, Harmful - R 20: Also harmful by inhalation.
Xi, Irritant - R 36/38: Irritating to eyes and skin.
Sensitizing. - R 43: May cause sensitisation by skin contact.
N, Dangerous for the environment - R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms


Signal word DANGER

Contains: potassium chromate
potassium dichromate
Silver nitrate

Hazard statements
H350 May cause cancer.
H340 May cause genetic defects.
H360FD May damage fertility. May damage the unborn child.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.
H312 Harmful in contact with skin.

Precautionary statements
P201 Obtain special instructions before use.
P260 Do not breathe dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Special labelling Restricted to professional users.

2.3 Other hazards

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:
The product is a mixture.

Range [%]	Substance
2,5 -< 10	potassium chromate
	CAS: 7789-00-6, EINECS/ELINCS: 232-140-5, EU-INDEX: 024-006-00-8
	GHS/CLP: Carc. 1B: H350i - Muta. 1B: H340 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Aquatic Chronic 1: H410 - STOT SE 3: H335 - Aquatic Acute 1: H400
	EEC: T-N, R 49-46-36/37/38-43-50/53
5 -< 10	Silver nitrate
	CAS: 7761-88-8, EINECS/ELINCS: 231-853-9, EU-INDEX: 047-001-00-2
	GHS/CLP: Ox. Sol. 2: H272 - Skin Corr. 1B: H314 - Aquatic Chronic 1: H410, M = 100
	EEC: O-C-N, R 8-34-50/53
0,5 -< 1	potassium dichromate
	CAS: 7778-50-9, EINECS/ELINCS: 231-906-6, EU-INDEX: 024-002-00-6
	GHS/CLP: Ox. Sol. 2: H272 - Carc. 1B: H350 - Muta. 1B: H340 - Repr. 1B: H360FD - Acute Tox. 2: H330 - Acute Tox. 3: H301 - STOT RE 1: H372 - Acute Tox. 4: H312 - Skin Corr. 1B: H314 - Resp. Sens. 1: H334 - Skin Sens. 1: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - STOT SE 3: H335
	EEC: T+-N-O, R 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53

Comment on component parts
SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0,1%
CAS 7778-50-9 - potassium dichromate
CAS 7789-00-6 - potassium chromate
For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Change powdered clothing immediately.

Inhalation
Consult a doctor immediately.
Ensure supply of fresh air.
Remove the victim into fresh air and keep him calm.

Skin contact
Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.
In case of contact with skin wash off immediately with soap and water.

Eye contact
Consult a doctor immediately.
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Shield unaffected eye.

Ingestion
Consult a doctor immediately.
Rinse out mouth and give plenty of water to drink.
Induce the patient to vomit of his own accord only if fully conscious.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic.
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used
Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Nitrogen oxides (NOx).
Phosphorus oxides (POx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Wear full protective suit.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid production of dust.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid the formation and deposition of dust.
Work under hood. Do not inhale substance.
Avoid spilling in enclosed areas.
The product is to be handled only by regularly trained experts.

The product is combustible.

Do not eat, drink, smoke or take drugs at work.
Remove contaminated soaked clothing immediately and dispose of safely.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store with combustible materials.
Do not store together with oxidizing agents.

Keep under lock and key. Should only be accessible to specialists or people authorized by them.
Keep container tightly closed.
Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
5 - < 10	Silver nitrate
	CAS: 7761-88-8, EINECS/ELINCS: 231-853-9, EU-INDEX: 047-001-00-2
	Long-term exposure: 0,01 mg/m³, as Ag

Ingredients with occupational exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
5 - < 10	Silver nitrate
	CAS: 7761-88-8, EINECS/ELINCS: 231-853-9, EU-INDEX: 047-001-00-2
	Eight hours: 0,01 mg/m³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Butyl rubber, >480 min (EN 374). Nitrile rubber, >480 min (EN 374).
Skin protection	Long-sleeved work clothes.
Other	Avoid contact with eyes and skin. Do not inhale dust. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.
Respiratory protection	Respiratory protection in the case of dust formation. Short term: filter apparatus, filter P3.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	tablet
Color	grey brown
Odor	odourless
Odour threshold	not applicable
pH-value	7,0 (1,0g / 100ml)
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	not determined
Bulk density [kg/m³]	not determined
Solubility in water	partially soluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Reactions with reducing agents.

10.4 Conditions to avoid

Dust formation.
Contact with moisture.
Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.
In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, inhalativ (dust), > 5 mg/l/4h.
ATE-mix, dermal, > 1000 - < 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.

Range [%]	Substance
5 -< 10	Silver nitrate, CAS: 7761-88-8
	LD50, oral, Rat: 1173 mg/kg.
0,5 -< 1	potassium dichromate, CAS: 7778-50-9
	LD50, dermal, Rabbit: 14 mg/kg.
	LD50, oral, Rat (female): 90,5 mg/kg.
	LD50, oral, Rat (male): 168 mg/kg.
	LC50, inhalativ (dust), Rat (female): 0,088 mg/l/4h.
2,5 -< 10	potassium chromate, CAS: 7789-00-6
	LD50, oral, mouse: 180 mg/kg.

Serious eye damage/irritation	Product is caustic.
Skin corrosion/irritation	Product is caustic.
Respiratory or skin sensitisation	Sensitizing.
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	Muta. 1B
Reproduction toxicity	Repr. 1B
Carcinogenicity	Carc. 1B
General remarks	Chromium(VI) is highly toxic. It is adsorbed via both the lungs and the gastrointestinal tract. Being strong oxidisers ,chromates/bichromates can cause burns and ulcerations on the skin and mucous membranes and also irritations in the upper respiratory tract. Poorly healing ulcers occur after wound contact. In predisposed persons the substance rapidly leads to sensitisation and allergic reactions of the respiratory tract (risk of pneumonia!) and damage to nasal mucous membranes (under given circumstances perforation of the septum). After swallowing severe symptoms in the gastrointestinal tract such as bloody diarrhoea, vomiting (aspiration pneumonia!), spasms, circulatory collapse, unconsciousness, formation of methaemoglobin. Absorption may result in hepatic and renal damage. Inhalable chromium(VI) compounds gave clear evidence to be carcinogenic in animal experiments. Lethal dose (man): 0,5 g. Antidotes: chelating agents such as EDTA, DMPS. Toxicological data of complete product are not available. The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
5 -< 10	Silver nitrate, CAS: 7761-88-8
	LC50, (96h), Oncorhynchus mykiss: 0,006 mg/l.
	LC50, (96h), Leuciscus idus: 0,029 mg/l.
	EC50, (48h), Daphnia magna: 0,0006 mg/l.
	NOEC, (96h), Oncorhynchus mykiss: 0,108 mg/l.
	LOEC, (168h), Oncorhynchus mykiss: 0,007 mg/l.
0,5 -< 1	potassium dichromate, CAS: 7778-50-9
	LC50, (96h), Lepomis macrochirus: 0,131 mg/l.
	EC50, (72h), Pseudokirchneriella subcapitata: 0,31 mg/l.
	EC50, (48h), Daphnia magna: 0,035 mg/l.
	NOEC, (168h), Daphnia magna: 0,016-0,064 mg/l.
	NOEC, (168h), Pimephales promelas: 6 mg/l.
2,5 -< 10	potassium chromate, CAS: 7789-00-6
	LC50, (96h), Pimephales promelas: 40 mg/l.
	EC50, (72h), Algae: 0,26 mg/l.
	EC50, (48h), Daphnia magna: 15 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.
The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 060313*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150102
150104
150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID UN 2923 Corrosive solid, toxic, n.o.s (Silver nitrate, Potassium chromate) (ENVIRONMENTALLY HAZARDOUS) 8 & 6.1 II

- Classification Code CT2

- Label

- ADR LQ 1 kg

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN) UN 2923 Corrosive solid, toxic, n.o.s (Silver nitrate, Potassium chromate) (ENVIRONMENTALLY HAZARDOUS) 8 & 6.1 II

- Classification Code CT2

- Label

Marine transport in accordance with IMDG UN 2923 Corrosive solid, toxic, n.o.s. (Silver nitrate, Potassium chromate) 8 & 6.1 II MARINE POLLUTANT

- EMS F-A, S-B

- Label

- IMDG LQ 1 kg

Air transport in accordance with IATA UN 2923 Corrosive solid, toxic, n.o.s. (Silver nitrate, Potassium chromate) 8 II

- Label

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- VOC (1999/13/CE)	not applicable

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 49: May cause cancer by inhalation.
R 46: May cause heritable genetic damage.
R 36/37/38: Irritating to eyes, respiratory system and skin.
R 43: May cause sensitisation by skin contact.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 8: Contact with combustible material may cause fire.
R 34: Causes burns.
R 45: May cause cancer.
R 60: May impair fertility.
R 61: May cause harm to the unborn child.
R 21: Harmful in contact with skin.
R 25: Toxic if swallowed.
R 26: Very toxic by inhalation.
R 42/43: May cause sensitisation by inhalation and skin contact.
R 48/23: Toxic - danger of serious damage to health by prolonged exposure through inhalation.

16.2 Hazard statements (SECTION 3)

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H312 Harmful in contact with skin.
H372 Causes damage to organs through prolonged or repeated exposure.
H301 Toxic if swallowed.
H330 Fatal if inhaled.
H360FD May damage fertility. May damage the unborn child.
H350 May cause cancer.
H314 Causes severe skin burns and eye damage.
H272 May intensify fire; oxidiser.
H400 Very toxic to aquatic life.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.
H340 May cause genetic defects.
H350i May cause cancer by inhalation.

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.4 Other information

Classification procedure

Carc. 1B: H350 May cause cancer. (Calculation method)
Muta. 1B: H340 May cause genetic defects. (Calculation method)
Repr. 1B: H360FD May damage fertility. May damage the unborn child. (Calculation method)
Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)
Acute Tox. 4: H312 Harmful in contact with skin. (Calculation method)

Modified position

SECTION 15 been added: Restricted to professional users.

SECTION 2 been added: H317 May cause an allergic skin reaction.

SECTION 2 been added: P280 Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 2 been added: P201 Obtain special instructions before use.

SECTION 2 been added: H350 May cause cancer.

SECTION 2 been added: DANGER

SECTION 2 been added: Gesundheitsgefahr

SECTION 2 been added: Carc. 1B

SECTION 2 been added: H410 Very toxic to aquatic life with long lasting effects.

SECTION 2 been added: Aquatic Chronic 1

SECTION 2 been added: H400 Very toxic to aquatic life.

SECTION 2 been added: P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

SECTION 2 been added: Aquatic Acute 1

SECTION 2 been added: Ausrufezeichen

SECTION 2 been added: Skin Sens. 1

SECTION 2 been added: Ätzwirkung

SECTION 2 been added: Skin Corr. 1B

SECTION 2 been added: H360FD May damage fertility. May damage the unborn child.

SECTION 2 been added: Repr. 1B

SECTION 2 been added: H340 May cause genetic defects.

SECTION 2 been added: Muta. 1B

SECTION 2 been added: R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 2 deleted: R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 2 been added: R 43: May cause sensitisation by skin contact.

SECTION 2 deleted: R 42/43: May cause sensitisation by inhalation and skin contact.

SECTION 2 been added: Umwelt

SECTION 2 been added: Acute Tox. 4

SECTION 2 been added: H314 Causes severe skin burns and eye damage.

SECTION 2 been added: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 2 been added: H312 Harmful in contact with skin.

SECTION 2 been added: P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

SECTION 2 been added: P310 Immediately call a POISON CENTER/doctor.

SECTION 2 been added: P260 Do not breathe dust.

SECTION 2 been added: P201 Obtain special instructions before use.

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4 been added: Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

SECTION 4 been added: Shield unaffected eye.

SECTION 4 been added: Product is caustic.

SECTION 4 been added: Allergic reactions

SECTION 4 been added: Consult a doctor immediately.

SECTION 5 been added: Phosphorus oxides (POx).

SECTION 6 been added: See SECTION 8+13

SECTION 7 been added: The product is to be handled only by regularly trained experts.

SECTION 7 been added: Work under hood. Do not inhale substance.

SECTION 7 been added: Avoid the formation and deposition of dust.

SECTION 7 been added: Remove contaminated soaked clothing immediately and dispose of safely.

SECTION 7 been added: Avoid spilling in enclosed areas.

SECTION 7 been added: See product use, SECTION 1.2

SECTION 8 been added: It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.

SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 8 been added: Respiratory protection in the case of dust formation.

SECTION 8 been added: Nitrile rubber, >480 min (EN 374).

SECTION 10 been added: In the event of fire: See SECTION 5.

SECTION 10 been added: See SECTION 10.3.

SECTION 10 been added: Strong heating.

SECTION 10 been added: Contact with moisture.

SECTION 10 been added: Dust formation.

SECTION 10 been added: Stable under normal ambient conditions (ambient temperature).

SECTION 10 been added: No dangerous reactions known if used as directed.

SECTION 11 been added: Product is caustic.

SECTION 11 been added: Chromium(VI) is highly toxic. It is adsorbed via both the lungs and the gastrointestinal tract. Being strong oxidisers ,chromates/bichromates can cause burns and ulcerations on the skin and mucous membranes and also irritations in the upper respiratory tract. Poorly healing ulcers occur after wound contact. In predisposed persons the substance rapidly leads to sensitisation and allergic reactions of the respiratory tract (risk of pneumonia!) and damage to nasal mucous membranes (under given circumstances perforation of the septum). After swallowing severe symptoms in the gastrointestinal tract such as bloody diarrhoea, vomiting (aspiration pneumonia!), spasms, circulatory collapse, unconsciousness, formation of methaemoglobin. Absorption may result in hepatic and renal damage. Inhalable chromium(VI) compounds gave clear evidence to be carcinogenic in animal experiments. Lethal dose (man): 0,5 g. Antidotes: chelating agents such as EDTA, DMPS.

SECTION 11 been added: Product is caustic.

SECTION 12 been added: No information available.

SECTION 12 been added: No information available.

SECTION 12 been added: No information available.

SECTION 13 been added:

SECTION 13 been added:

SECTION 13 been added:

SECTION 14 deleted: Environmentally hazardous substance, solid, n.o.s. (Potassium chromate, Silver nitrate)

SECTION 14 been added: No information available.

SECTION 14 been added: Corrosive solid, toxic, n.o.s. (Silver nitrate, Potassium chromate)

SECTION 14 been added: Corrosive solid, toxic, n.o.s. (Silver nitrate, Potassium chromate)

SECTION 14 been added: Corrosive solid, toxic, n.o.s (Silver nitrate, Potassium chromate)

SECTION 14 deleted: Environmentally hazardous substance, solid, n.o.s. (Potassium chromate, Silver nitrate)

SECTION 14 deleted: Environmentally hazardous substance, solid, n.o.s. (Potassium chromate, Silver nitrate)

SECTION 15 been added: -

SECTION 15 been added: Chemical safety assessments for substances in this mixture were not carried out.

SECTION 15 been added: Storage class 6.1C (VCI)

SECTION 15 been added: Chemical safety assessments for substances in this mixture were not carried out.

SECTION 15 been added: TRGS 510: Lagerung von Gefahrstoffen in ortsbeweglichen Behältern

SECTION 15 been added: TRGS 905: List of substances causing cancer, mutagenic or being dangerous to reproduction.

SECTION 15 been added: -

SECTION 16 been added: Calculation method

SECTION 16 been added: Observe employment restrictions for young people.

SECTION 16 been added: Calculation method

SECTION 16 been added: Calculation method

SECTION 16 been added: Observe employment restrictions for mothers-to-be and nursing mothers.