

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 24.10.2023

Version number 10 (replaces version 9)

Revision: 24.10.2023

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

· **1.1 Product identifier**

· **Product name:** KS502 - Mercuric Nitrate Cartridge 2.256N / Vario Chloride Mercuric Nitrate 2.256N

· **Catalog number:** 56Z050298, 56L050213, 56U050213, 56L050273

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

· **Application of the substance / the preparation:** Reagent for water analysis

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier:**

Tintometer GmbH
Schleefstraße 8-12
44287 Dortmund
Made in Germany
www.lovibond.com

phone: +49 (0)231 94510-0
e-mail: sales@lovibond.com

The Tintometer Limited
Lovibond® House
Sun Rise Way
Amesbury
Wiltshire SP4 7GR
United Kingdom

phone : +44 1980 664800
e-mail: SDS@lovibond.uk

· **Informing department:**

e-mail: sds@lovibond.com
Product Safety Department

· **1.4 Emergency telephone number:**

+44 1235 239670
Languages: English

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 1 H310 Fatal in contact with skin.
Acute Tox. 2 H330 Fatal if inhaled.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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 · **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information**

Personal protection for the First Aider!

Instantly remove any clothing soiled by the product.

Remove breathing apparatus only after soiled clothing has been completely removed.

· **After inhalation**

Supply fresh air or oxygen.

Call a doctor immediately.

· **After skin contact**

Instantly rinse with water.

Call a doctor immediately.

· **After eye contact** Rinse opened eye for several minutes (at least 15 min) under running water. Then consult doctor.

· **After swallowing**

Rinse out mouth and then drink 1-2 glasses of water.

Instantly call for doctor.

· **4.2 Most important symptoms and effects, both acute and delayed:**

Irritation and corrosion

damage to the affected mucous membranes possible
after swallowing and inhalation:

thirst

sickness

vomiting

metallic taste

bloody diarrhoea

pain

after absorption of large amounts:

methaemoglobinaemia

functional disturbances to the kidneys / kidney damage

· **Danger**

Danger of system failure.

Danger of disturbed cardiac rhythm.

Danger of pulmonary oedema.

Risk of serious damage to eyes.

· **4.3 Indication of any immediate medical attention and special treatment needed:**

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

Following inhalation of aerosols from solutions, inhalative and intravenous application of glucocorticoids and all other prophylactic measures for pulmonary edema are required as soon as possible. Prophylaxis for pneumonia should also be considered soon.

Antidote: dimercaptopropane sulfonate (DMPS)

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

· **5.2 Special hazards arising from the substance or mixture**

The product is not combustible.

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

mercury vapours

Nitrogen oxides (NO_x)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

· **Additional information**

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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 Ambient fire may liberate hazardous vapours.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

· **Advice for non-emergency personnel:**

Wear protective equipment. Keep unprotected persons away.

Avoid substance contact.

Ensure adequate ventilation

Use breathing protection against the effects of fumes/dust/aerosol.

· **Advice for emergency responders:** Protective equipment: see section 8

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, universal binders).

Dispose of contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

· **Advice on safe handling:**

Open and handle container with care.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Hygiene measures:**

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Take off immediately all contaminated clothing.

Store protective clothing separately.

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke when using this product.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Requirements to be met by storerooms and containers:**

Store in cool location.

Keep only in original packaging.

· **Information about storage in one common storage facility:**

Store away from metals.

Do not store together with alkalis (caustic solutions).

· **Further information about storage conditions:**

Store in a locked cabinet or with access restricted to technical experts or their assistants.

Keep container tightly sealed.

Protect from heat and direct sunlight.

Protect from the effects of light.

Protect from humidity and keep away from water.

· **Recommended storage temperature:** 20°C +/- 5°C

· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 7783-34-8 mercury nitrate monohydrate

WEL (Great Britain)	Long-term value: 0.02 mg/m ³ as Hg
BOELV (European Union)	Long-term value: 0.02 mg/m ³ as Hg
IOELV (European Union)	Long-term value: 0.02 mg/m ³ as Hg

CAS: 7697-37-2 nitric acid

WEL (Great Britain)	Short-term value: 2.6 mg/m ³ , 1 ppm
IOELV (European Union)	Short-term value: 2.6 mg/m ³ , 1 ppm

· Regulatory information

WEL (Great Britain): EH40/2020

BOELV (European Union): EU 2022/431

IOELV (European Union): (EU) 2019/1831

· **Additional information:** IOELV = Indicative Occupational Exposure Limit

· Recommended monitoring procedures:

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

· Ingredients with biological limit values:

CAS: 7783-34-8 mercury nitrate monohydrate

BMGV (Great Britain)	20 µmol/mol creatinine Medium: urine Sampling time: random Parameter: mercury
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· **Regulatory information** BMGV (Great Britain): EH40/2011

· **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

· Individual protection measures, such as personal protective equipment

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

· Eye/face protection

Tightly sealed safety glasses.

Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.

· Hand protection

Protective gloves.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

· Material of gloves

nitrile rubber, NBR

Chloroprene rubber, CR

Recommended thickness of the material: ≥ 0.11 mm

· Penetration time of glove material

Value for the permeation: Level = 1 (< 10 min)

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

· Other skin protection (body protection):

Protective work clothing.

· Breathing equipment:

Use breathing protection against the effects of fumes/dust/aerosol.

· Recommended filter device for short term use:

Special gas filter Hg-P3

· Environmental exposure controls

Do not allow product to reach sewage system or water bodies.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· Physical state	Fluid
· Form:	Solution
· Colour:	Colourless
· Odour:	Odourless
· Odour threshold:	Not applicable.
· Melting point/Freezing point:	Not determined.
· Boiling point or initial boiling point and boiling range	Not determined.
· Flammability	The product is not combustible.
· Explosive properties:	Product is not explosive.
· Lower and upper explosion limit	
Lower:	Not applicable.
Upper:	Not applicable.
· Flash point:	Not applicable.
· Auto-ignition temperature:	Not applicable.
· Decomposition temperature:	Not determined.
· pH	~1
	Strongly acidic
· Kinematic viscosity	Not determined.
· Solubility	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not applicable (mixture).
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20°C:	1.3 g/cm ³
· Relative density:	Not determined.
· Relative gas density	Not determined.
· Particle characteristics	Not applicable (liquid).

· **9.2 Other information**

· Information with regard to physical hazard classes	.
· Corrosive to metals	May be corrosive to metals.
· Metals that are corroded by the substance or mixture	Information on incompatible materials can be found in Sections 7 and 10.
· Other safety characteristics	
· Oxidising properties:	none
· Additional information	
· Solids content:	< 35 %
· Solvent content:	
· Organic solvents:	0 %
· Water:	> 65 %

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability**
Stable at ambient temperature (room temperature).
sensitivity to light
- **10.3 Possibility of hazardous reactions**
Corrosive action on metals
Reacts with reducing agents
Reacts with acids and alkali (lyes).
Reacts with alcohols
Reacts with ammonia (NH₃).
- **10.4 Conditions to avoid**
To avoid thermal decomposition do not overheat.
Exposure to light
- **10.5 Incompatible materials:**
metals
alkali metals
organic solvents

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organic substances

· **10.6 Hazardous decomposition products:** see section 5

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity

Classification according to calculation procedure:

Toxic if swallowed.

Fatal in contact with skin or if inhaled.

Acute toxicity estimate (ATE_(MIX)) - Calculation method:

Oral	CLP ATE _(MIX)	149 mg/kg (.)
Dermal	CLP ATE _(MIX)	29 mg/kg (.)
Inhalative	CLP ATE _(MIX)	0.28 mg/l/4h (aerosol (dust, mist))

LD/LC50 values that are relevant for classification:
CAS: 7783-34-8 mercury nitrate monohydrate

Oral	LD50	26 mg/kg (rat) (anhydrous substance; RTECS)
Dermal	LD50	5 mg/kg (ATE)
	LD50.	75 mg/kg (rat) (anhydrous substance; RTECS)
Inhalative	LC50/4h	0.05 mg/l (ATE)

CAS: 7697-37-2 nitric acid

Oral	LDLo	430 mg/kg (human) (IUCLID)
Inhalative	LC50/4h	0.5 mg/l (aerosol (dust, mist)) (ATE)
		2.65 mg/l (Vapor)

· **Skin corrosion/irritation** Causes skin irritation.· **Serious eye damage/irritation** Causes serious eye irritation.· **Information on components:** CAS 7697-37-2 / 7783-34-8: chronic: dermatitis· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.· **Information on components:** CAS 7783-34-8: Sensitizing effect by skin contact is possible by prolonged/repeated exposure.· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.· **Carcinogenicity** Based on available data, the classification criteria are not met.· **Reproductive toxicity** Based on available data, the classification criteria are not met.· **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.· **STOT (specific target organ toxicity) -repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

· **Aspiration hazard** Based on available data, the classification criteria are not met.
Information on likely routes of exposure

An intake of nitric acid (during occupational handling) is mainly to be expected via the respiratory tract.

Exposure to acid vapors caused irritation to the eyes and skin but damage to the airways is of the greatest concern. [GESTIS]

A primary intake pathway for mercury(II)-nitrate cannot be stated. Intake is possible via the gastrointestinal tract, lung and also through skin penetration. [GESTIS]

Additional toxicological information:

Mercury compounds have a cytotoxic and protoplasmatoxic effect.

The principal signs manifest themselves in the CNS.

CAS: 7783-34-8 mercury nitrate monohydrate

· (source: GESTIS)
Main toxic effects
Acute: probable severe irritation through to chemical burns to mucous membranes and skin, damage to the eyes; skin sensitizing potential, toxic effects to the gastrointestinal system, functional disturbances or damage to the kidneys.
Chronic: damage to the skin and kidneys.
Repeated or prolonged contact with the skin can cause skin damage (reddening, inflammation, ulcerative changes) which are irritatively or (following sensitization) allergically related.

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CAS: 7697-37-2 nitric acid

(source: GESTIS)
 Main toxic effects
 Acute: Irritation and corrosion to the eyes, airways and skin, danger of severe damage to the eyes and lungs, after swallowing life threatening chemical burns in the gastrointestinal tract
 Chronic: Diseases of the airways, damage to the teeth

11.2 Information on other hazards

· **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

Other information

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
CAS: 7783-34-8 mercury nitrate monohydrate

LC50	0.17 mg/l/96h (fathead minnow) (anhydrous substance; Ecotox)
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CAS: 7697-37-2 nitric acid

LC50	72 mg/l/96h (mosquitofish) (IUCLID)
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12.2 Persistence and degradability
Other information:

Mixture of inorganic compounds.
 Methods for the determination of biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Pow = n-octanol/wasser partition coefficient
 log Pow < 1 = Does not accumulate in organisms.

CAS: 7697-37-2 nitric acid

log Pow	-2.3 (.)
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· **12.4 Mobility in soil** No further relevant information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of water supplies. Avoid transfer into the environment.

Water hazard:

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.
 Danger to drinking water if even extremely small quantities leak into soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Hand over to disposers of hazardous waste.

European waste catalogue

16 05 07*	discarded inorganic chemicals consisting of or containing hazardous substances
06 04 04*	wastes containing mercury

Uncleaned packagings:

· **Recommendation:** Disposal must be made according to official regulations.

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 · **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3289
· 14.2 UN proper shipping name · ADR · IMDG · IATA	3289 TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (MERCURIC NITRATE, NITRIC ACID), ENVIRONMENTALLY HAZARDOUS TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (MERCURIC NITRATE, NITRIC ACID), MARINE POLLUTANT TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (MERCURIC NITRATE, NITRIC ACID)
· 14.3 Transport hazard class(es) · ADR	
· Class · Label	6.1 (TC3) Toxic substances. 6.1+8
· IMDG	
· Class · Label	6.1 Toxic substances. 6.1/8
· IATA	
· Class · Label	6.1 Toxic substances. 6.1 (8)
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous substances: mercury nitrate monohydrate Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Kemler Number: · EMS Number: · Segregation groups · Stowage Category · Stowage Code	Warning: Toxic substances. 68 F-A,S-B (SGG7) Heavy metals and their salts (including their organometallic compounds), (SGG11) mercury and mercury compounds, (SGG1a) strong acids B SW2 Clear of living quarters.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

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· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	100 ml
· Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	100 ml
· Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml

* SECTION 15: Regulatory information

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

· Poisons Act UK

· Regulated explosives precursors

The concentration of the substance is less than the stated mass percentage and should still be considered as reportable substance:

CAS: 7697-37-2	nitric acid	3%
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· Regulated poisons

CAS: 7783-34-8	mercury nitrate monohydrate	Listed
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· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148:

All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Please see <https://ec.europa.eu>

· explosives precursors - ANNEX I

CAS 7697-37-2: c < 3%

CAS: 7697-37-2	nitric acid	*
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· Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)

CAS: 7783-34-8	mercury nitrate monohydrate	Annex I Part 1 Annex I Part 3 Annex V Part 2
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· Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

None of the ingredients is listed.

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

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- **Substances of very high concern (SVHC) according to REACH, Article 57**
This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (w / w).
 - **Substances of very high concern (SVHC) according to UK REACH**
This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (w / w).
 - **Directive 2012/18/EU (SEVESO III):**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **Seveso category**
H1 ACUTE TOXIC
E2 Hazardous to the Aquatic Environment
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5 t
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 20 t
 - **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 18
 - **Information about limitation of use:**
Employment restrictions concerning young persons must be observed (94/33/EC).
Employment restrictions concerning pregnant and lactating women must be observed (92/85/EEC).
 - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
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SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Training hints** Provide adequate information, instruction and training for operators.
- **Relevant phrases**
H272 May intensify fire; oxidiser.
H290 May be corrosive to metals.
H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.
- **Abbreviations and acronyms:**
OECD: Organisation for Economic Co-operation and Development
STOT: specific target organ toxicity
SE: single exposure
RE: repeated exposure
EC50: half maximal effective concentration
IC50: half maximal inhibitory concentration
NOEL or NOEC: No Observed Effect Level or Concentration
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Ox. Liq. 3: Oxidizing liquids – Category 3
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 1: Acute toxicity – Category 1
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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· Sources

Data arise from safety data sheets, reference works and literature.

ECHA: European Chemicals Agency <http://echa.europa.eu>

IUCLID (International Uniform Chemical Information Database)

RTECS (Registry of Toxic Effects of Chemical Substances)

· * Data compared to the previous version altered.

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