

Safety Data Sheet acc. to OSHA HCS (HazCom 2012)

Printing date 07/05/2022

Reviewed on 07/05/2022

1 Identification

- **Product identifier**
- **Trade name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure**
- **Catalogue number:** 56Z636398, 56L636365, 56U636365
- **Application of the substance / the mixture:** Reagent for water analysis
- **Manufacturer/Supplier:**
Tintometer Inc.
6456 Parkland Drive
Sarasota, FL 34243
USA
phone: (941) 756-6410
fax: (941) 727-9654
www.lovibond.us
Made in Germany
- **Emergency telephone number:** + 1 866 928 0789 (English, French, Spanish)

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Specific Target Organ Toxicity - Single Exposure 2 H371 May cause damage to the central nervous system, the eyes and the visual organs.



GHS07

Eye Irritation 2A

H319 Causes serious eye irritation.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Hazard Communication Standard (HCS).

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

methanol

- **Hazard statements**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H371 May cause damage to the central nervous system, the eyes and the visual organs.

- **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection.

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.

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P308+P313 IF exposed or concerned: Get medical advice/attention.
 P405 Store locked up.
 P403+P235 Store in a well-ventilated place. Keep cool.

Other hazards

Vapors have narcotic effect.
 At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
 Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Solvent mixture with additives
- **Composition and Information on Ingredients:**
 Percent ranges are used due to the confidential product information.

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 RTECS: KQ 6300000	ethanol ⚠ Flammable Liquids 2, H225; ⚠ Eye Irritation 2A, H319	90–100%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X RTECS: PC 1400000	methanol ⚠ Flammable Liquids 2, H225; ⚠ Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; ⚠ Specific Target Organ Toxicity - Single Exposure 1, H370	3–<5%

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

* 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air and to be sure call for a doctor.
- **After skin contact:**
 Immediately wash with water and soap and rinse thoroughly.
 Get medical advice/attention.
- **After eye contact:** Rinse opened eye for several minutes (at least 15 min) under running water. Then consult a doctor.
- **After swallowing:**
 Rinse out mouth and then drink 1-2 glasses of water.
 Call a doctor immediately.
- **Most important symptoms and effects, both acute and delayed**
 irritations
 Drying-out effect resulting in rough and chapped skin.
 resorption
 after resorption:
 headache
 drowsiness
 dizziness
 coughing
 sickness
 vomiting
 narcotic conditions
 CNS disorders
- **Danger:** Risk of blindness!
- **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

* 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
 CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **Special hazards arising from the substance or mixture**

- Can form explosive gas-air mixtures.
- Can burn in fire.
- Formation of toxic gases is possible during heating or in case of fire.
- Carbon monoxide (CO) and carbon dioxide (CO₂)

- **Advice for firefighters**

- **Protective equipment:**

- Wear self-contained respiratory protective device.
- Wear fully protective suit.

- **Additional information**

- Collect contaminated fire fighting water separately. It must not enter the sewage system.
 - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 - Ambient fire may liberate hazardous vapours.
-

* 6 Accidental release measures

- **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

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

- **Environmental precautions:**

- Do not allow product to reach sewage system or any water course.
- Prevent seepage into sewage system, workpits and cellars.
- Suppress gases/fumes/haze with water spray.

- **Methods and material for containment and cleaning up:**

- Ensure adequate ventilation.
- Absorb with liquid-binding material (sand, diatomite, universal binders).
- Dispose contaminated material as waste according to item 13.

- **Reference to other sections**

- See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.
-

* 7 Handling and storage

- **Precautions for safe handling**

- **Advice on safe handling:**

- Ensure good ventilation/exhaustion at the workplace.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- Protect from heat.
- Keep ignition sources away - Do not smoke.
- Take precautionary measures against static discharge.

- **Hygiene measures:**

- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes.
- Avoid contact with the skin.
- Take off immediately all contaminated clothing.
- Wash hands before breaks and at the end of work.
- Do not eat, drink or smoke when using this product.

- **Conditions for safe storage, including any incompatibilities**

- **Requirements to be met by storerooms and receptacles:**

- Store in a cool location.
- Keep only in original container.

- **Information about storage in one common storage facility:** Store away from oxidizing agents.

- **Further information about storage conditions:**

- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Store receptacle in a well ventilated area.
- Protect from exposure to the light.
- Protect from humidity and water.

- **Recommended storage temperature:** 20°C +/- 5°C (approx. 68°F)

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

* 8 Exposure controls/personal protection

· **Control parameters**

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

CAS: 64-17-5 ethanol	
PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV (USA)	Short-term value: 1000 ppm A3
EL (Canada)	Short-term value: 1000 ppm
EV (Canada)	Long-term value: 1,900 mg/m ³ , 1,000 ppm
CAS: 67-56-1 methanol	
PEL (USA)	Long-term value: 260 mg/m ³ , 200 ppm
REL (USA)	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV (USA)	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
EL (Canada)	Short-term value: 250 ppm Long-term value: 200 ppm Skin
EV (Canada)	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
Ingredients with biological limit values:	
CAS: 67-56-1 methanol	
BEI (USA)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

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

· **Engineering measures:**

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

· **Personal protective equipment:**

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

· **Breathing equipment:** Use respiratory protective device against the effects of fume/dust/aerosol.

· **Recommended filter device for short term use:** Filter A

· **Protection of hands:**

Protective gloves
Solvent resistant 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**

Butyl rubber, BR
Recommended thickness of the material: ≥ 0.35 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.

· **Eye protection:**

Safety glasses
Use protective goggles that have been tested and approved in accordance with government standards (like NIOSH).

· **Body protection:** Protective work clothing

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- **Limitation and supervision of exposure into the environment:**
Do not allow product to reach sewage system or any water course.

* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance:**
- **Form / Physical state:** Solution
- **Color:** Dark blue
- **Odor:** Alcohol-like
- **Odor threshold:** CAS 64-17-5: 0.1 - 5058.5 ppm
CAS 67-56-1: 10 - 20000 ppm
- **pH-value at 20°C (68°F):** 6-7
- **Melting point/freezing point:** Not determined.
- **Initial boiling point and boiling range:** 78.3°C (172.9°F) (CAS: 64-17-5 ethanol)
- **Flash point:** 12°C (53.6°F) (c.c., CAS: 64-17-5 ethanol)
- **Flammability (solid, gas):** Highly flammable liquid and vapor.
- **Ignition temperature:** 425°C (797°F) (CAS: 64-17-5 ethanol)
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not self-igniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **Flammability or explosive limits:**
- **Lower:** 3.1 Vol % (CAS: 64-17-5 ethanol)
- **Upper:** 27.7 Vol % (CAS: 64-17-5 ethanol)
- **Oxidizing properties:** none
- **Vapor Pressure:** Not determined.
- **Density at 20°C (68°F):** 0.8 g/cm³ (6.68 lbs/gal)
- **Relative density:** Not determined.
- **Vapor density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility(ies)**
- **Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not applicable (mixture).
- **Viscosity:**
- **Kinematic:** Not determined.
- **Other information**
- **Solids content:** < 1 %
- **Solvent content:**
- **Organic solvents:** > 95 %

* 10 Stability and reactivity

- **Reactivity** Fumes can combine with air to form an explosive mixture.
- **Chemical stability** Stable at ambient temperature (room temperature).
- **Possibility of hazardous reactions**
 - > Danger of explosion.
 - > exothermic reaction.
 - Reacts with strong oxidizing agents.
 - Reacts with alkaline metals.
 - Reacts with earth alkaline metals.
 - Reacts with reducing agents.
 - Reacts with peroxides.
 - Reacts with halogenated compounds.
 - Reacts with acids.
 - Nitric acid
- **Conditions to avoid** Heating.
- **Incompatible materials:**
 - rubber
 - various plastics

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- **Hazardous decomposition products:**
Flammable gases/vapors
see section 5

*11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:** Based on available data, the classification criteria are not met.

- **Acute toxicity estimate (ATE_(MX)) - Calculation method:**

Oral	GHS ATE _(MX)	2098 mg/kg (.)
Inhalative	GHS ATE _(MX)	10 mg/l/4h (aerosol (dust, mist)) 63 mg/l/4h (vapour)

- **LD/LC50 values that are relevant for classification:**

CAS: 64-17-5 ethanol

Oral	LD50	10470 mg/kg (rat) OECD 401
Dermal	LD50	>20000 mg/kg (rabbit)

CAS: 67-56-1 methanol

Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4h	3 mg/l (ATE)

- **Primary irritant effect:**

- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Causes serious eye irritation.

- **Information on components:**

CAS 64-17-5: chronic: dermatitis

CAS: 64-17-5 ethanol

Irritation of skin	OECD 404	(rabbit: no irritation) (ECHA, registrant)
Irritation of eyes	OECD 405	(rabbit: irritation) (ECHA, registrant)

CAS: 67-56-1 methanol

Irritation of skin	OECD 404	(rabbit: no irritation)
Irritation of eyes	OECD 405	(rabbit: no irritation)

- **Sensitization:** Based on available data, the classification criteria are not met.

- **Information on components:**

CAS: 64-17-5 ethanol

Sensitization	OECD 406	(guinea pig: negative) (read across CAS 67-56-1)
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CAS: 67-56-1 methanol

Sensitization	OECD 406	(guinea pig: negative)
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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS 64-17-5: Carcinogen classification of IARC, NTP, California Prp. 65 for Ethanol apply to beverage use only. This solution is not intended for this use.

CAS: 64-17-5	ethanol	1
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Other information:** see section 8 / 15

- **Synergistic Products:** None

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** The following statements refer to the mixture:
- **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**
May cause damage to the central nervous system, the eyes and the visual organs.
- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Information on components:**
OECD 414: Teratogenicity testing
OECD 473: Mutagenicity testing
OECD 471, 474, 476, 487: Germ cell mutagenicity testing

CAS: 64-17-5 ethanol	
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test) (Salmonella typhimurium)
CAS: 67-56-1 methanol	
OECD 471	(negative) (Salmonella typhimurium)
OECD 476	(negative)
OECD 474	(negative)

- **Additional toxicological information:**
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc. Mists may be irritant to the mucous membranes and upper respiratory tract.

CAS: 64-17-5 ethanol	
.	(source: GESTIS) Main toxic effects: Acute: Irritant effect on the eyes (liquid ethanol); disorders of well-being; due to high doses disturbance of the central nervous system. In case of acute inhalative exposure, ethanol has a low toxicity. The odor becomes noticeable in the range of 80 ppm, the threshold for eye irritation is much higher (>10000 ppm). High exposures can cause coughing and tears. chronic: degreasing of the skin (liquid ethanol); ingestion of high doses causes damage to various organ systems, especially the liver.
CAS: 67-56-1 methanol	
.	(source: GESTIS) Main toxic effects: Acute: Irritant effect on the eyes, CNS depression, systemic damage to the eyes chronic: neurological symptoms, irritation of the nasal mucosa from exposure to higher vapor concentrations, skin damage from repeated contact. Symptoms may be delayed. (Merck)

*12 Ecological information

· Toxicity

· Aquatic toxicity:	
CAS: 64-17-5 ethanol	
LC50	8140 mg/l/48h (gold orfe) (IUCLID)
EC50	9268–14221 mg/l/48h (Daphnia magna) (IUCLID)
NOEC	9.6 mg/l (Daphnia magna) (9d) (ECHA)

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CAS: 67-56-1 methanol	
EC50	>10000 mg/l/48h (Daphnia magna) (MERCK - IUCLID)
EC50	~22000 mg/l/96h (Pseudokirchneriella subcapitata) (OECD 201) (MERCK)
NOEC	7900 mg/l (fish) (200h) (Orzias latipes)
LC50	15400 mg/l/96h (bluegill)

· **Bacterial toxicity:**

CAS: 64-17-5 ethanol

EC5 6500 mg/l (Pseudomonas putida) (16h)

· **Persistence and degradability**

CAS: 64-17-5 ethanol

OECD 301 E 94 % (readily biodegradable) (Modified OECD Screening Test)

CAS: 67-56-1 methanol

OECD 301 D 99 % / 30 d (readily biodegradable) (Closed Bottle Test)

· **Other information:** The product is easily biodegradable.

· **Bioaccumulative potential**

Pow = n-octanol/wasser partition coefficient

log Pow < 1 = Does not accumulate in organisms.

CAS: 64-17-5 ethanol

log Pow -0.32 (.)

CAS: 67-56-1 methanol

log Pow -0.77 (.) (experimental)

· **Mobility in soil** No further relevant information available.

· **Other adverse effects** Avoid transfer into the environment.

* 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.


Hand over to hazardous waste disposers.

· **Uncleaned packagings:**

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

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	UN1170
· UN proper shipping name	
· DOT	Ethanol
· IMDG	ETHANOL (ETHYL ALCOHOL) mixture
· IATA	ETHANOL mixture
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids

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· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-D
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

*15 Regulatory information

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

· Section 355 (Extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 67-56-1 | methanol

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

CAS: 67-56-1 | methanol

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

CAS: 64-17-5 | ethanol

CAS: 67-56-1 | methanol

· New Jersey Right-to-Know List:

CAS: 64-17-5 | ethanol

CAS: 67-56-1 | methanol

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· New Jersey Special Hazardous Substance List:		
CAS: 64-17-5	ethanol	CA, MU, TE, F3
CAS: 67-56-1	methanol	TE, F3
· Pennsylvania Right-to-Know List:		
CAS: 64-17-5	ethanol	
· Pennsylvania Special Hazardous Substance List:		
None of the ingredients is listed.		
· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· US-VOC content: ~794.4 g/l / ~6.63 lb/gal		
· Information about limitation of use:		
Observe national regulations where applicable:		
Employment restrictions concerning young persons must be observed.		
Employment restrictions concerning pregnant and lactating women must be observed.		
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

* 16 Other information

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

· Relevant phrases

H225 Highly flammable liquid and vapor.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H370 Causes damage to organs.

· Date of preparation / last revision 07/05/2022 / 3

· 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
c.c.: closed cup
ACGIH® - American Conference of Governmental Industrial Hygienists
•A1 - Confirmed human carcinogen
•A2 - Suspected human carcinogen
•A3 - Confirmed animal carcinogen with unknown relevance to humans
•A4 - Not classifiable as a human carcinogen
•A5 - Not suspected as a human carcinogen
IARC - International Agency for Research on Cancer
•Group 1 - Carcinogenic to humans
•Group 2A - Probably carcinogenic to humans
•Group 2B - Possibly carcinogenic to humans
•Group 3 - Not classifiable as to carcinogenicity to humans
•Group 4 - Probably not carcinogenic to humans
NTP - National Toxicology Program, U.S. Department of Health and Human Services
•Group K - Known to be Human Carcinogens
•Group R - Reasonably Anticipated to be Human Carcinogens
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit

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Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Oral 3: Acute toxicity – Category 3

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1

Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2

· Sources

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

GESTIS- Stoffdatenbank (Substance Database, Germany)

ECHA: European CHemicals Agency <http://echa.europa.eu>**· * Data compared to the previous version altered.**

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