

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

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

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

· **1.1 Product identifier**

· **Product name:** KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

· **Catalog number:** 56Z636398, 56L636365, 56U636365

· **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**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

STOT SE 2 H371 May cause damage to the central nervous system and the eyes.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

· **2.2 Label elements**

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

The product is classified and labelled according to the GB CLP regulation.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 1)

Hazard pictograms


GHS02 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

methanol

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

Vapours have anaesthetic 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.

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.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Solvent mixture with additives.

Dangerous components:

Ethanol, denatured with methanol

CAS: 64-17-5 EINECS: 200-578-6 Index No: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319	90–100%
CAS: 67-56-1 EINECS: 200-659-6 Index No: 603-001-00-X Reg.nr.: 01-2119433307-44-XXXX	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	3–<5%

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 Instantly remove any clothing soiled by the product.

After inhalation Supply fresh air and call for doctor for safety reasons.

After skin contact

Instantly 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 doctor.

After swallowing

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

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 2)

Call a doctor immediately.

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

irritations

Drying-out effect resulting in rough and chapped skin.

absorption

after absorption:

headache

drowsiness

dizziness

coughing

sickness

vomiting

narcotic conditions

CNS disorders

· **Danger** Risk of blindness!

· **4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents**

CO₂, extinguishing powder or water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Can form explosive gas-air mixtures.

combustible

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

Carbon monoxide (CO) and carbon dioxide (CO₂)

· **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.

Ambient fire may liberate hazardous vapours.

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

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

· **6.2 Environmental precautions:**

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

Prevent material from reaching sewage system, holes and cellars.

Damp down gases/fumes/haze with water spray jet.

· **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.

GB

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 3)

SECTION 7: Handling and storage

- **7.1 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 action to prevent static discharges.
- **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 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 oxidising agents.
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed containers.
 - Protect from heat and direct sunlight.
 - Store container in a well ventilated position.
 - 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.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

CAS: 64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
---------------------	--

CAS: 67-56-1 methanol

WEL (Great Britain)	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk
IOELV (European Union)	Long-term value: 260 mg/m ³ , 200 ppm Skin

· Regulatory information

WEL (Great Britain): EH40/2020

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

· DNELs

Derived No Effect Level (DNEL)

CAS: 64-17-5 ethanol

Oral	DNEL	87 mg/kg (Consumer / long-term / systemic effects)
Dermal	DNEL	343 mg/kg (Worker / long-term /systemic effects)
		206 mg/kg (Consumer / long-term / systemic effects)
Inhalative	DNEL	1900 mg/m ³ (Worker / acute / local effects)
		950 mg/m ³ (Worker / long-term /systemic effects)
		950 mg/m ³ (Consumer / acute / local effects)
		114 mg/m ³ (Consumer / long-term / systemic effects)

CAS: 67-56-1 methanol

Oral	DNEL	8 mg/kg (Consumer / acute / systemic effects)
		8 mg/kg (Consumer / long-term / systemic effects)

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 4)

Dermal	DNEL	40 mg/kg (Worker / acute / systemic effects)
		40 mg/kg (Worker / long-term / systemic effects)
		8 mg/kg (Consumer / acute / systemic effects)
		8 mg/kg (Consumer / long-term / systemic effects)
Inhalative	DNEL	260 mg/m ³ (Worker / acute / local effects)
		260 mg/m ³ (Worker / acute / systemic effects)
		260 mg/m ³ (Worker / long-term / local effects)
		260 mg/m ³ (Worker / long-term / systemic effects)
		50 mg/m ³ (Consumer / acute / local effects)
		50 mg/m ³ (Consumer / acute / systemic effects)
		50 mg/m ³ (Consumer / long-term / local effects)
		50 mg/m ³ (Consumer / long-term / systemic effects)

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.

PNECs

Predicted No Effect Concentration (PNEC)

CAS: 64-17-5 ethanol	
PNEC	580 mg/l (Sewage treatment plant)
	0.79 mg/l (Marine water)
	2.75 mg/l (Aquatic intermittent release)
	0.96 mg/l (Fresh water)
PNEC	0.63 mg/kg (Soil)
	3.6 mg/kg (Fresh water sediment)
CAS: 67-56-1 methanol	
PNEC	100 mg/l (Sewage treatment plant)
	15.4 mg/l (Marine water)
	154 mg/l (Fresh water)
PNEC	23.5 mg/kg (Soil)
	570.4 mg/kg (Fresh water sediment)

· **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

Safety glasses

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

Hand protection

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.

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: Filter A

(Contd. on page 6)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 5)

 · **Environmental exposure controls** Do not allow product to reach sewage system or water bodies.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Physical state	Fluid
· Form:	Solution
· Colour:	Dark blue
· Odour:	Alcohol-like
· Odour threshold:	CAS 64-17-5: 0.1 - 5058.5 ppm CAS 67-56-1: 10 - 20000 ppm
· Melting point/Freezing point:	Not determined.
· Boiling point or initial boiling point and boiling range	78.3°C (CAS: 64-17-5 ethanol)
· Flammability	Highly flammable liquid and vapour.
· Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· Lower and upper explosion limit	
Lower:	3.1 Vol % (CAS: 64-17-5 ethanol)
Upper:	27.7 Vol % (CAS: 64-17-5 ethanol)
· Flash point:	12°C (c.c. CAS: 64-17-5 ethanol)
· Auto-ignition temperature:	425°C (CAS: 64-17-5 ethanol)
· Decomposition temperature:	Not determined.
· pH at 20°C	6-7
· 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:	0.8 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	Void
· Other safety characteristics	
· Oxidising properties:	none
· Additional information	
· Solids content:	< 1 %
· Solvent content:	
· Organic solvents:	> 95 %

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Fumes can combine with air to form an explosive mixture.
- **10.2 Chemical stability** Stable at ambient temperature (room temperature).
- **10.3 Possibility of hazardous reactions**
 - > Explosive
 - > exothermic reaction
 - Reacts with strong oxidizing agents
 - Reacts with alkaline metals
 - Reacts with alkaline earth metals
 - Reacts with reducing agents
 - Reacts with peroxides
 - Reacts with halogenated compounds
 - Reacts with acids
 - Nitric acid
- **10.4 Conditions to avoid** Heating.

(Contd. on page 7)

— GB —

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 6)

10.5 Incompatible materials:

 rubber
 various plastics

10.6 Hazardous decomposition products:

 Inflammable gases/vapours
 see section 5

SECTION 11: Toxicological information

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

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

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)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation 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)

CAS: 67-56-1 methanol

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

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Information on components:
CAS: 64-17-5 ethanol

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

CAS: 67-56-1 methanol

Sensitisation	OECD 406	(guinea pig: negative)
---------------	----------	------------------------

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.

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)

STOT (specific target organ toxicity) -single exposure May cause damage to the central nervous system and the eyes.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 7)

- **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 likely routes of exposure

Under occupational conditions, the main uptake route for ethanol is through the respiratory tract. [GESTIS]

The main routes of absorption for methanol (M.) are via the lungs and the skin.

With absorption rates of 53 - 85 %, M. was found to be well absorbed via the respiratory tract.

The dermal absorption rate via the human forearm was determined to be 0.192 mg M./cm² x min. Thus, a high percutaneous absorption should be assumed.

After oral intake, M. is absorbed relatively quickly from the gastrointestinal tract. [GESTIS]

Additional toxicological information:

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc. Vapours and aerosols 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)

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: 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)

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)

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 8)

· Bacterial toxicity:	
CAS: 64-17-5 ethanol	
EC5	6500 mg/l (Pseudomonas putida) (16h)
· 12.2 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.	
· 12.3 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)
· Bioconcentration factor (BCF)	
CAS: 67-56-1 methanol	
BCF	1 (carp) (72d, 20°C, 5mg/l)
· 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 Avoid transfer into the environment.	
· Water hazard:	
Do not allow product to reach ground water, water bodies or sewage system.	
Danger to drinking water if even 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 08*	discarded organic chemicals consisting of or containing hazardous substances
14 06 03*	other solvents and solvent mixtures
· Uncleaned packagings:	
· Recommendation: Disposal must be made according to official regulations.	
· Recommended cleaning agent: Water, if necessary with cleaning agent.	

SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR, IMDG, IATA	UN1170
· 14.2 UN proper shipping name	
· ADR	1170 ETHANOL (ETHYL ALCOHOL) mixture
· IMDG	ETHANOL (ETHYL ALCOHOL) mixture
· IATA	ETHANOL mixture

(Contd. on page 10)

— GB —

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 9)

· 14.3 Transport hazard class(es)	
· ADR	
	
· Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	
Not applicable.	
· 14.6 Special precautions for user	
Warning: Flammable liquids.	
· Kemler Number:	33
· EMS Number:	F-E,S-D
· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	
Not applicable.	
· Transport/Additional information:	
· ADR	
· 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
· Transport category	2
· Tunnel restriction code	D/E
· 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

* SECTION 15: Regulatory information

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

 · **Poisons Act UK**

 · **Regulated explosives precursors**

None of the ingredients is listed.

 · **Regulated poisons**

None of the ingredients is listed.

 · **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** not regulated

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 10)

· Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)
None of the ingredients is listed.
· 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.

- **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** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 69
- **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).
- **National regulations**
- **VOC-value EC:** ~794.4 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* 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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Training hints** Provide adequate information, instruction and training for operators.
- **Relevant phrases**
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H370 Causes damage to organs.

- **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

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 12)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 4 (replaces version 3)

Revision: 15.11.2023

Product name: KS6363 - Chloride Indicator (mixed) / Soln. Mixte pour Chlorure

(Contd. of page 11)

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)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

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

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 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.

GB