

		STEELCO S.P.	Revision nr. 5
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SECTION 2. Hazard	ls identificatio	on	
2.1. Classification of the su	bstance or mixture		
supplements). The product th	us requires a safety	datasheet that complies with the prov	Regulation 1272/2008 (CLP) (and subsequent amendments an visions of (EU) Regulation 2020/878. iven in sections 11 and 12 of this sheet.
Hazard classification and indi	cation:		
Oxidising solid, category 2 Acute toxicity, category 4 Skin Irritation, category 2 Specific target organ toxicity Serious eye damage, categ Hazardous to the aquatic er category 3	ory 1	H318	May intensify fire; oxidiser. Harmful if swallowed. Causes skin irritation May cause respiratory irritation Causes serious eye damage. Harmful to aquatic life with long lasting effects.
		Classification note/no	tes according to Annex VI to the CLP Regulation: B
2.2. Label elements			
Hazard pictograms:			
Signal words:	Danger		
Hazard statements:			
H302 H H315 () H318 () H335 H	May intensify fire; o Harmful if swallowed Causes skin irritation Causes serious eye May cause respirato Harmful to aquatic li	d. n damage.	
Precautionary statements:			
P280 V P261 / P220 P P210 P	rinsing. Wear protective glov Avoid breathing vap Keep away from clo	ves/eye protection/face protection. ours/spray. thing and other combustible materials at, hot surfaces, sparks, open flames a	es. Remove contact lenses, if present and easy to do. Continue and other ignition sources. No smoking.
	Hydrogen Peroxide NDEX 008-003-0		

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2.3. Other hazards		
On the basis of available data, the product does	not contain any PBT or vPvB in percentage ≥ than 0,1%	, ).
The product does not contain endrocrine disrupt	ing chemicals in concentration $\geq 0.1\%$ .	
SECTION 3. Composition/inform	nation on ingredients	
3.1. Substances		
Contains:		
Identification Con	nc. Classification 1272/2008 (CLP)	
HYDROGEN PEROXIDE SOLUTION		
CAS 7722-84-1 47 %	wt Ox. Liq. 1 H271, Acute Tox. 4 H302, Acu Eye Dam. 1 H318, STOT SE 3 H335, Ac classificazione secondo l'allegato VI del	uatic Chronic 3 H412, Nota di
CE 231-765-0		
INDEX 008-003-00-9	STOT SE 3 H335: ≥ 35% LD50 Oral: 693,7 mg/kg STA Inalazione vapori: 11 mg/l	
Reg. REACH 01-2119485845-22- xxxx		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

PROTECTION MEASURES FOR FIRST AID: for the PPE necessary for first aid interventions refer to section 8.2 of this safety data sheet.

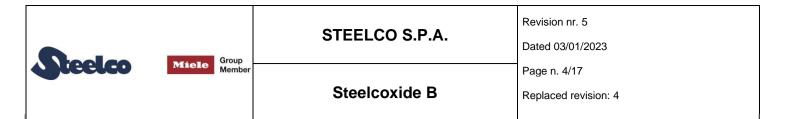
## 4.2. Most important symptoms and effects, both acute and delayed

EYES: from painful irritation to severe chemical burns (conjunctival hyperemia, conjunctivitis, edema, blepharospasm, iritis, corneal turbidity, epithelial defects, permanent corneal damage).

SKIN: solutions starting from approx. 10%: temporary bleaching (oxygen emphysema in interstitial tissue, gas embolism in blood capillaries), erythema, pain; from a concentration of approx. 70%: chemical burns, comparable to third degree burns; contamination of large areas could lead to systemic oxygen embolism.

INHALATION: mucosal irritation, inflammatory tissue reactions, obstruction, glottic and pulmonary edema, dyspnoea up to respiratory failure; extreme cases could lead to systemic effects.

INGESTION: irritation up to corrosion of the mucous membranes in contact especially in the upper digestive tract, distension of the stomach, displacement of the upper respiratory tract due to foaming, gastritis, duodenitis, colitis, acute visceral congestion, formation of vacuoles in the submucosal gastrointestinal tract, in lymphatic channels, mesenteric lymph nodes or mucosal-associated lymphoid tissue, as well as vacuolation in other organs, systemic effects due to air embolism.



SYSTEMIC EFFECTS: shock, acute coronary insufficiency, status epilepticus, cerebrovascular collapse, respiratory failure. The most frequent cause of death after ingestion of solutions W> 10% is the obstruction of the respiratory tract due to the formation of foam (-> mechanical asphyxia).

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

In the event of an accident or discomfort, consult a doctor immediately (if possible show the instructions for use or the safety data sheet).

# **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products. By decomposition it releases oxygen. The release of oxygen can promote combustion.

### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6.** Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For those who do not intervene directly

Do not take any action involving any personal risk or without proper training. Evacuate the surrounding areas. Do not touch or walk on the spilled material.

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of this Safety Data Sheet) to prevent contamination of skin, eyes and personal clothing. Wear appropriate respirator when ventilation is inadequate.

Do not inhale the mists / vapors / fumes. Avoid the dispersion of the product into the environment. Follow the appropriate internal procedures for personnel not authorized to intervene directly in the event of accidental release.

6.1.2 For those who intervene directly

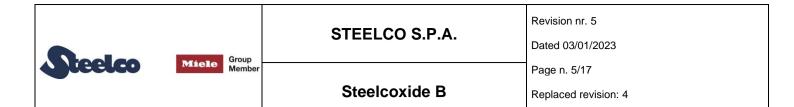
Stop the leak if there is no danger.

Evacuate unauthorized personnel. Wear suitable protective equipment. (see section 8 of this Safety Data Sheet). Follow the appropriate internal procedures for authorized personnel. Isolate the danger area and deny entry. Ventilate enclosed spaces before entering.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up



Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

No use other than that indicated in section 1.2 of this safety data sheet

## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe. Mitteilung 56
ESP FRA GBR	España France United Kingdom TLV-ACGIH	Límites de exposición profesional para agentes químicos en España 2019 Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS EH40/2005 Workplace exposure limits (Fourth Edition 2020) ACGIH 2020

# HYDROGEN PEROXIDE SOLUTION

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	DEU	0,71	0,5	0,71	0,5		
VLA	ESP	1,4	1				
VLEP	FRA	1,5	1				
WEL	GBR	1,4	1	2,8	2		
TLV-ACGIH		1,4	1				
Predicted no-effect co	ncentration - PNEC						
Normal value in fresh	water			12,6	hí	g/L	
Normal value in marine	e water			12,6	μ	g/L	

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Normal value for fresh wate	er sediment			47	hi	g/kg		
Normal value for marine wa	ater sediment			47	hi	g/kg		
Normal value for water, inte	ermittent release			19,8	hi	g/L		
Normal value of STP micro	organisms			4,66	m	ıg/l		
Normal value for the terrest	trial compartment			2,3	μ	g/kg		
Health - Derived no-ef	fect level - DNEL / D Effects on	MEL			Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral					VND	VND	VND	VND
Inhalation	1,93 mg/m3	VND	210 µg/m³	VND	3 mg/m3	VND	1,4 mg/m3	VND
Skin					VND	VND	VND	VND

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

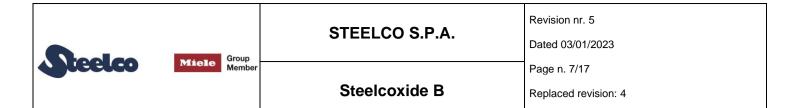
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with



environmental standards. Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	liquid	
Colour	incolor	
Odour	pungent	
Odour threshold	Not determined	
рН	< 2,5	
Melting point / freezing point Initial boiling point Boiling range	-52 °C 114 °C Not determined	Concentration: 50% Concentration: 50%
Flash point	> 60 °C	
Evaporation rate	Not determined	
Vapour pressure	13,33 mmHg	Concentration: 50% Temperature: 20 °C
Vapour density	Not determined	
Relative density	1,1829 g/cm <sup>3</sup>	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	-1,57 Log Pow	Concentration: 60% Temperature: 20 °C
Auto-ignition temperature	Not applicable	
Decomposition temperature	>60 °C	
Viscosity	1,17 cP	Concentration:50% Temperature: 20 °C
Explosive properties	Not explosive	
9.2. Other information		
9.2.1. Information about physico-chemical	ls hazard	
No information available		

9.2.2. Other safety information

Oxidant property

Oxidant cat. 3

Certificate of Analysis R-SSC-210689 of 05.27.21

## **SECTION 10. Stability and reactivity**

## 10.1. Reactivity

Decomposes if exposed to: light,heat. Decomposes on contact with: alkaline metals.Possibility of explosion. The product is a strong oxidizing and reactive agent.

### 10.2. Chemical stability

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In contact with impurities, decomposition catalysts, incompatible substances, and combustible substances, the substance can give rise to a selfaccelerated exothermic decomposition reaction with formation of oxygen.

### 10.3. Possibility of hazardous reactions

The product may react violently with water. Danger of decomposition if exposed to heat.

The product is a strong oxidizing and reactive agent.

Impurities, decomposition catalysts, incompatible substances, combustible substances, can cause self-accelerated, exothermic decomposition and oxygen formation.

Risk of overpressure and bursting due to decomposition in confined spaces and pipes.

The release of oxygen can promote combustion.

## 10.4. Conditions to avoid

Avoid overheating. Prevent moisture or water from penetrating inside the containers. Avoid exposure to: light,heat. Avoid contact with: alkaline substances.

### 10.5. Incompatible materials

Incompatible with: flammable substances, acetone, ethanol, glycerol, organic sulphides, hydrated bases, oxidising substances, iron,copper,bronze, chromium, zinc,l ead, silver, manganese, acetic acid.

Impurities, decomposition catalysts, metal salts, alkalis, hydrochloric acid, reducing agents (Risk of decomposition.). Flammable substances (Fire hazard). Organic solvents (Explosion hazard)

### 10.6. Hazardous decomposition products

Oxygen.

## **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

### Metabolism, toxicokinetics, mechanism of action and other information

It is an endogenous product formed in the cells of the organism. It penetrates through the skin and mucous membranes and decomposes in the underlying tissues. This causes diffuse infiltration of the released oxygen and the formation of emboli. In the mammalian organism, the enzymes that mostly work for the metabolism of the substance are glutathione peroxidase and catalase (INRS, 2007).

### Information on likely routes of exposure

The primary route of exposure for hydrogen peroxide solution is through the respiratory tract and skin. (GESTIS Substance Database)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

### Acute Effects:

Depending on the concentration: irritating to corrosive effects on the skin and mucous membranes, especially those of the eyes; Inflammatory changes of the respiratory tract, in extreme cases lung damage due to higher vapor / aerosol concentrations.

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Chronic Effects: Irritation of the mucous membranes (mainly of the eyes and throat) and gradual discoloration of the hair; possible skin changes. (GESTIS Substance Database) Interactive effects							

Information not available

## ACUTE TOXICITY

ATE (Inhalation) of the mixture:> 20 mg/l ATE (Oral) of the mixture: 1043,88 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

LD50 (Oral) 1193 mg/kg Rat at the concentration of 35% LD50 (Dermal) 2000 mg/kg bw Rabbit LC50 (Vapour) >20 mg/L\4h

> Method: equivalent or similar to OECD 401 Reliability (Klimisch score): 1 Species: Rat (Male / Female) Routes of exposure: oral Results: LD50 = 1026 mg / kg bw Details of the tested material: 70% Hydrogen Peroxide

Method: equivalent or similar to OECD 403 Reliability (Klimisch score): 1 Species: Rat (Sprague-Dawley; Male / Female) Routes of exposure: inhalation (vapors) Results: LD50 not determinable at concentrations of 170 mg / m3 Details of the tested material: 50% Hydrogen Peroxide

Method: equivalent or similar to OECD 402 Reliability (Klimisch score): 1 Species: Rabbit (New Zealand White, male / female) Routes of exposure: cutaneous Results: LC50 = not determinable at a concentration of 2000 mg / kg bw Details of the tested material: Hydrogen Peroxide 35%

### **SKIN CORROSION / IRRITATION**

Corrosive for the skin

Method: equivalent or similar to OECD 404 Reliability (Klimisch score): 1 Species: Rabbit (New Zealand White, male / female) Routes of exposure: cutaneous Results: Category 2 Irritant (EC1272 / 2008) Details of the tested material: Hydrogen Peroxide 49.2%

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Method: equivalent or similar to OECD 405 Reliability (Klimisch score): 1 Species: Rabbit (New Zealand White, male / female) Routes of exposure: ocular

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Results: Category 2 Irritant (GHS Criteria) Details of the tested material: Hydrogen Peroxid	e 10%							
RESPIRATORY OR SKIN SENSITISATION								
Does not meet the classification criteria for this h	nazard class							
GERM CELL MUTAGENICITY								
Does not meet the classification criteria for this h	nazard class							
Reliability (Klimisch score): 1 In vivo test Species: Mouse (Swiss OF1 / ICO: OF1 Routes of exposure: intraperitoneal Results: negative with and without meta	In vivo test Species: Mouse (Swiss OF1 / ICO: OF1, male / female)							
CARCINOGENICITY								
Does not meet the classification criteria for this h	nazard class							
Reference: publication (1996) Species: hamster (Syrian; Male / Female Routes of exposure: oral mucosa Results: negative. NOAEL (carcinogenic Details of the tested material: Hydrogen Bibliographic reference: J Am Coll Toxic	ity): not detected Peroxide 3%							
REPRODUCTIVE TOXICITY								
Does not meet the classification criteria for this h	nazard class							
Reference: publication (1958) Species: Rat (Osborne-Mendel; Male / Female) Routes of exposure: Oral Results: no effect observed Details of the tested material: 0.45% Hydrogen Peroxide Bibliographic reference: Nature 181, 1453								
Adverse effects on sexual function and fertility								
	en peroxide with water to drink for 5 weeks gave birth to ed 3 months after administering a 1% product to drinking							
Adverse effects on development of the offspring								
Reference: publication (1958) Species: Rat (Wistar) Routes of exposure: Oral Results: no effect observed Details of the tested material: Hydrogen Peroxide 10% Bibliographic reference: Acta Obst Gynaec Japan 34, 2149-2154 STOT - SINGLE EXPOSURE								

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Does not meet the classification criteria for this hazard class

Based on available data, the substance has no specific target organ toxicity effects for single exposure and is not classified under the relevant CLP hazard class.

Target organ

Respiratory trait.

Route of exposure

Inalation (vapour).

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Method: OECD 40 Reliability (Klimisch score): 1 Species: Mouse (C57BL / 6NCrIBR; males / females) Routes of exposure: oral Results: negative. NOAEL = 100 ppm

Method: OECD 412 Reliability (Klimisch score): 1 Species: Rat (Alpk: ApfSD; males / females) Routes of exposure: inhalation (aerosol) Results: negative. NOAEL = 2.9 mg / m<sup>3</sup> air

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

No data are available on the hazard in case of aspiration.

### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

## **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

## 12.1. Toxicity

Activated sludge:

EC50 (30 min) = 466 mg/l (OECD 209) EC50 (3 h) >1000 mg/l (OECD 209)

HYDROGEN PEROXIDE SOLUTION

LC50 - for Fish

EC50 - for Crustacea

16,4 mg/l/96h Pimephales promelas (USEPA Toxic Substances Control Act Test Guideline) 2,4 mg/l/48h Daphnia pulex (USEPA Toxic Substances Control Act Test Guidelines)

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EC50 - for Algae / Aquatic Plants	1,38 mg/l/72h Skeletonema cos	statum, soluzione al 35%			
Chronic NOEC for Fish	5 mg/L/96 h Pimephales prome Test Guideline)	elas (USEPA Toxic Substances Control Act			
Chronic NOEC for Crustacea	,	Toxic Substances Control Act Test Guidelines)			
Chronic NOEC for Algae / Aquatic Plants	0,63 mg/l Skeletonema costatu	m, soluzione al 35%			
Quickly biodegradable, 99% in 30 min. (OECD 209) Solubility in water 2.3. Bioaccumulative potential	100000 mg/l				
Partition coefficient: n-octanol/water	-1,57				
2.4. Mobility in soil					
Soil / sediment: Log KOC = 0.2 evaporation and ads Air, volatility, Henrym's constant = 0.75 kPa.m3 / mc					
2.5. Results of PBT and vPvB assessment					
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.					
2.6. Endocrine disrupting properties					

According to the available data, the product does not contain substances with endocrine-disrupting properties at a rate of 0.1% by weight or more.

## 12.7. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

## 13.1. Waste treatment methods

Reuse if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partially contains this product must be evaluated according to the laws in force. (Ref. Annex D -

Part IV of Legislative Decree n. 152/2006 and subsequent amendments and adjustments).

Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local regulations. The legal responsibility for disposal lies with the producer / holder of the waste.

Different CER (European Refusal Code) codes could be applied to this product according to the specific circumstances that generated the waste, any alterations and contaminations.

The product as it is, out of specification in the original packaging, or poured into a suitable container for disposal as waste, or the

product in specification but no longer usable (for example following an accidental spill), it is to be classified with a CER code compatible with the description of use indicated in section 1.2.

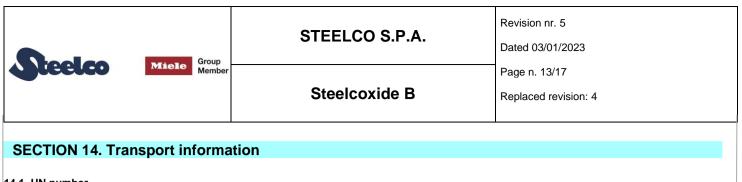
The suitable final destination of the waste will be evaluated by the manufacturer according to the chemical-physical characteristics of the waste itself, compatible with the plant

authorized to which it will be conferred for recovery, treatment or final disposal according to the procedures provided for by the regulations in force. Disposal via the wastewater drain is not permitted.

## CONTAMINATED PACKAGING

Contaminated packaging must be sent, properly labeled, for recovery or disposal in compliance with national regulations on the management of waste and is to be classified with the following CER code:

15 01 10 \*: packaging containing residues of dangerous substances or contaminated by these substances.



## 14.1. UN number

ADR / RID, IMDG, 2014 IATA:

## 14.2. UN proper shipping name

ADR / RID:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
IMDG:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
IATA:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION

## 14.3. Transport hazard class(es)

ADR / RID:	Class: 5.1	Label: 5.1 (8)	
IMDG:	Class: 5.1	Label: 5.1 (8)	
IATA:	Class: 5.1	Label: 5.1 (8)	

## 14.4. Packing group

ADR / RID, IMDG, II IATA:

### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 58	Limited Quantities: 1 L	Tunnel restriction code: (E)
	Special provision: -		
IMDG:	EMS: F-H, S-Q	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 5 L	Packaging instructions: 554
	Pass.:	Maximum quantity: 1 L	Packaging instructions: 550
	Special provision:	-	

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

# **SECTION 15. Regulatory information**

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Seveso Category - Directive 2012/18	/EC: P8			
Restrictions relating to the product or	contained	substances pursuant to Annex XVII to EC Regulation 19	07/2006	
Product Point 3   Liquid substances or mixtures that correspond to the criteria relating to one of the following hazard classes or categories referred to Annex I of Regulation (EC) No. 1272/2008: a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types from A to F; b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or development, 3.8 effects other than narcotic effects, 3.9 and 3.10; c) hazard class 4.1; d) hazard class 5.1.				
			Contained substance	
Point	75			
HYDROGEN PEROXIDE SOLUTION Reg. no.: 01-2119485845-22-xxxx				
Substances included in one or more of the following: a) substances classified in one of the following classes in Annex VI, part 3, of Regulation (EC) no. 1272/. - category 1A, 1B or 2 carcinogenicity, category 1A, 1B or 2 germ cell mutagenicity, but excluding substa- classified due to effects following exposure by inhalation only; - Reproductive toxicity of category 1A, 1B or 2, but excluding substances classified due to effects followin exposure by inhalation only; - skin sensitization of category 1, 1A or 1B; - skin corrosion of category 1, 1A, 1B or 1C or skin irritation of category 2; - serious category 1 eye damage or category 2 eye irritation; b) substances listed in Annex II of Regulation (EC) no. 1223/2009 of the European Parliament and of the Council (*); c) substances listed in Annex IV of Regulation (EC) no. 1223/2009 for which a condition is indicated in a one of the columns g, h or i of the table of that annex; d) substances listed in Appendix 13 of this annex. The ancillary requirements referred to in points 7 and the column 2 of this item apply to all mixtures intended for tattooing practices, regardless of whether contain one of the substances referred to in points a) to d) of this column and entry.		rm cell mutagenicity, but excluding substances ubstances classified due to effects following category 2; 109 of the European Parliament and of the 2009 for which a condition is indicated in at least or requirements referred to in points 7 and 8 of es, regardless of whether		
Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors				
HYDROGEN PEROXIDE (CAS 7722-84-1) - Restricted explosives precursor The acquisition, introduction, possession or use of that restricted explosives precursor by members of the general public is subject to a restriction as set out in Article 5(1) and (3). Restricted explosives precursors shall not be made available to, or introduced, possessed or used by members of the general				

public. The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting

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

Italian Ministry of the Interior Tel.: +390646542182 E-Mail: precursori@dcpc.interno.it

Substances in Candidate List (Art. 59 REACH)

Group	STEELCO S.P.A.	Revision nr. 5 Dated 03/01/2023	
Miele Member	Steelcoxide B	Page n. 15/17 Replaced revision: 4	
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.			
Substances subject to authorisation (Annex XIV REACH)			
None			
Substances subject to exportation reporting purs	uant to (EC) Reg. 649/2012:		
None			
Substances subject to the Rotterdam Convention:			
None			
Substances subject to the Stockholm Convention:			
None			
Healthcare controls			
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.			

Class IIb medical device according to the 93/42 regulation.

## 15.2. Chemical safety assessment

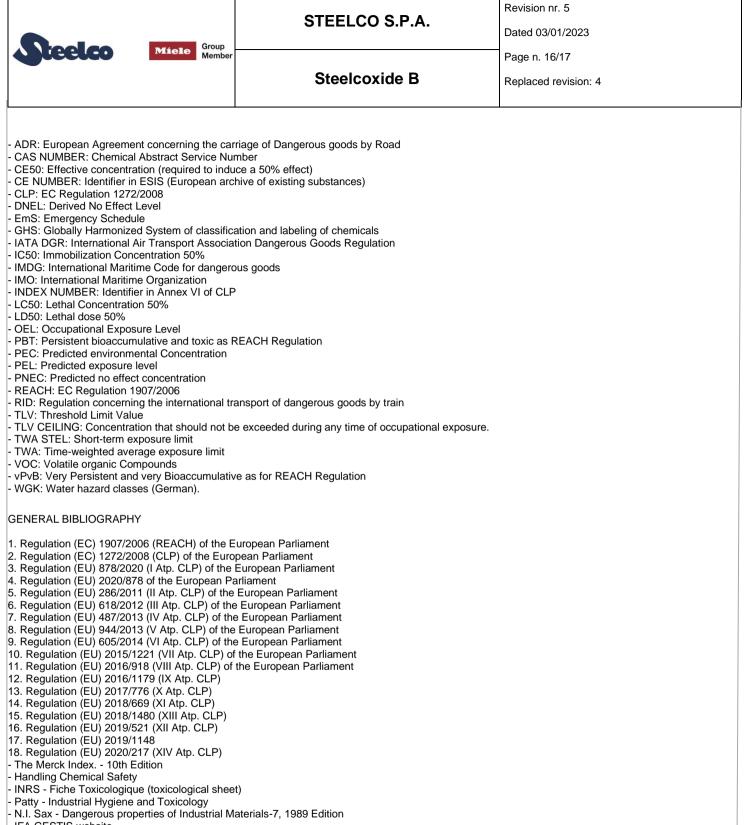
A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

# **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Ox. Liq. 1	Oxidising liquid, category 1
Ox. Sol. 2	Oxidising solid, category 2
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:



- IFA GESTIS website
- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

### TRAINING FOR WORKERS:

The training of workers must include contents, updates and duration according to the risk profiles assigned to the working sectors of membership, according to the procedures provided for by Legislative Decree 81/2008.

## NOTE FOR THE RECIPIENT OF THE SAFETY DATA SHEET (SDS):

Declar	Miele Group Member	STEELCO S.P.A.	Revision nr. 5 Dated 03/01/2023
Steelco		Steelcoxide B	Page n. 17/17 Replaced revision: 4

It is the recipient of this SDS who must ensure that the information contained is read and understood by all persons who manipulate,

store, use, or in any case come into contact in any way with the substance or mixture to which this sheet refers. In particular the

recipient must provide adequate training to personnel assigned to the use of hazardous substances or mixtures. The recipient must make sure of the suitability and completeness of the information in relation to the specific use of the substance or mixture.

However, the substance or mixture to which this SDS refers must not be used for uses other than those specified in section 1. Do not

assume responsibility for improper use. Since the use of the product does not fall under the direct control of the Supplier nor the productor FIS&DM srl, it is the user's obligation

observe, under their own responsibility, the laws and regulations in force regarding national and community hygiene and safety.

The information contained in this SDS is provided in good faith and is based on the current state of scientific and technical knowledge as of the date

revision indicated, available from the Supplier indicated in section 1 of this sheet. The SDS should not be construed as a guarantee of

any specific property of the substance or mixture. The information refers only to the substance or mixture specifically designated for

section 1 and may not be valid for the substance or mixture used in combination with other materials or in other processes not specifically indicated in the text.

This version of the SDS supersedes all previous versions.

## CALCULATION METHODS FOR CLASSIFICATION:

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Classification of the mixture according to Regulation (EC) n. 1272/2008 Classification procedure

May intensify fire; oxidiser.	H272	Based on experimental data
Harmful if swallowed.	H302	Based on literature data
Causes skin irritation	H315	Based on literature data
May cause respiratory irritation	H335	Based on literature data
Causes serious eye damage.	H318	Based on literature data
Harmful to aquatic life with long lasting effects.	H412	Based on literature data

Changes to previous review

The following sections were modified:

01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/16.