

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 22 September 2020 Version: 2.0

	tance/mixture and of the company/undertaking
1.1. Product identifier	. Minteres
Product form	: Mixture
Trade name	: 3% sodium hypochlorite and 6% sodium hypochlorite
1.2. Relevant identified uses of the substa	ince of mixture and uses advised against
1.2.1. Relevant identified uses Use of the substance/mixture	: A sodium hypochlorite solution designed for irrigation, debridement, and cleansing of root canals during and after instrumentation.
1.2.2. Uses advised against	
No additional information available 1.3. Details of the supplier of the safety da	ata sheet
Supplier:	
Emergo Europe	
Prinsessegracht 20	
2514 AP The Hague	
The Netherlands +31 (0) 70 345 8570	
+31 (0) 70 343 8370	
Manufacturer:	
Inter-Med, Inc. / Vista Dental Products	
2200 South Street	
Racine, WI 53404	
T: (877)-418-4782	
1.4. Emergency telephone number	
Emergency number	: 800-424-9300 (North America) / +1 (703) 527-3887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	ture
Classification according to Regulation (EC) No Skin corrosion/irritation, Category 1B Hazardous to the aquatic environment — Acute Ha	H314
Full text of H statements : see section 16	
Adverse physicochemical, human health and e Causes severe skin burns and eye damage. Very 2.2. Label elements	
Labelling according to Regulation (EC) No. 127 Hazard pictograms (CLP)	
	GHS05 GHS09
Signal word (CLP)	: Danger
Hazardous ingredients	: Sodium hypochlorite
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage. H400 - Very toxic to aquatic life.
Precautionary statements (CLP)	 P273 - Avoid release to the environment. P280 - Wear protective gloves, eye protection. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER. P391 - Collect spillage. P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor, a POISON CENTER. P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Immediately call a doctor, a POISON CENTER.
EUH-statements	: EUH031 - Contact with acids liberates toxic gas.
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2.3. Other hazards not contributing to the classification No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium hypochlorite	(CAS-No.) 7681-52-9 (EC-No.) 231-668-3 (EC Index-No.) 017-011-00-1	6	Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10)
Specific concentration limits:			
Name	Product identifier	Specifie	c concentration limits
Sodium hypochlorite	(CAS-No.) 7681-52-9 (EC-No.) 231-668-3 (EC Index-No.) 017-011-00-1	(5 = <c <<="" td=""><td>< 100) EUH031</td></c>	< 100) EUH031

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash off immediately and plentifully with water for at least 20 minutes. Take off immediately all contaminated clothing and wash it before reuse. Get immediate medical advice/attention.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 20-30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Symptoms/effects after skin contact	: Causes severe burns.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
4.3. Indication of any immediate medical att Treat symptomatically.	ention and special treatment needed

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the substa	
Fire hazard	: On combustion, forms: carbon oxides (CO and CO2). Toxic and irritating gases are released. If the product is involved in a fire, it can release toxic chlorine gases.
Explosion hazard	: No direct explosion hazard.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protective equipment for firefighters	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release m	easures	
6.1. Personal precautions, protective	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Protective equipment	: Use personal protective equipment as required. For further inform "Exposure controls/personal protection".	mation refer to section 8:
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment ventilation wear respiratory protection.	ent. In case of inadequate
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6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment a	nd cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Deference to other continue	

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, including a	ny incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
Incompatible materials	: Acids. ammonia. Amines. Powdered metals. Oxidizing agent. Organic materials. Methanol.
Storage temperature	: 2°C to 29°C
7.3. Specific end use(s)	
See Heading 1.	

SECTION 8: Exposure controls/personal protection
.1. Control parameters
.2. Exposure controls
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Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Impermeable protective gloves. EN 374

Eye protection:

Safety glasses with side shields. DIN EN 166

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

No respiratory protection needed under normal use conditions

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical p	
9.1. Information on basic physical and ch	
Physical state	: Liquid
Appearance	: Clear.
Colour	: Yellow.
Odour	: slight chlorine.
Odour threshold	: No data available
рН	: 11.4 - 13
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: ≈ 100 °C (212 °F)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 17.5 mm Hg (20 °C)

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Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 1.1 (70 °F)
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
Contact with acids liberates toxic gas.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
Reacts vigorously with strong oxidizers and acids.
10.4. Conditions to avoid
Keep out of direct sunlight.
10.5. Incompatible materials
Acids. Amines. ammonia. Powdered metals. Oxidizing agent. Organic materials. Methanol.
10.6. Hazardous decomposition products

On combustion, forms: carbon oxides (CO and CO2). Toxic and irritating gases are released.

SECTION 11: Toxicological information 11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Sodium hypochlorite (7681-52-9)	
LD50 oral rat	8.91 g/kg
LD50 dermal rabbit	> 10000 mg/kg
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 11.4 - 13
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
	pH: 11.4 - 13
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Sodium hypochlorite (7681-52-9)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: This material has not been tested for environmental effects.
Acute aquatic toxicity	: Very toxic to aquatic life.
Chronic aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)

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Sodium hypochlorite (7681-52-9)		
LC50 fish 1	0.06 - 0.11 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
LC50 fish 2	4.5 - 7.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	0.033 - 0.044 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available		
12.5. Results of PBT and vPvB assessment No additional information available		
12.6. Other adverse effects Additional information	: Avoid release to the environment.	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN 1791	UN 1791	UN 1791	UN 1791	UN 1791
14.2. UN proper shipping	g name			
HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	Hypochlorite solution	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION
Transport document descri	ption			
UN 1791 HYPOCHLORITE SOLUTION (Sodium hydroxide), 8, II, (E), ENVIRONMENTALLY HAZARDOUS	UN 1791 HYPOCHLORITE SOLUTION (Sodium hydroxide), 8, II, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1791 Hypochlorite solution (Sodium hydroxide), 8, II, ENVIRONMENTALLY HAZARDOUS	UN 1791 HYPOCHLORITE SOLUTION (Sodium hydroxide), 8, II, ENVIRONMENTALLY HAZARDOUS	UN 1791 HYPOCHLORIT SOLUTION (Sodium hydroxide), 8, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard c	lass(es)		•	
8	8	8	8	8
14.4. Packing group				
II	II	II	II	II
14.5. Environmental haz	ards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary informatio	n available			
4.6. Special precautions	for user			
overland transport				
lassification code (ADR)	: C9			
pecial provisions (ADR)	: 521			
imited quantities (ADR)	: 11			
xcepted quantities (ADR)	: E2			
acking instructions (ADR)		01, IBC02		
pecial packing provisions (Al		10, B5		

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Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2, TP24
Tank code (ADR)	: L4BV(+)
Tank special provisions (ADR)	: TE11
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80
Orange plates	80 1791
Tunnel restriction code (ADR)	: E
EAC code	: 2X
	. 27
Transport by sea	B aa/
Packing instructions (IMDG)	: P001
Special packing provisions (IMDG)	: PP10
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B5
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2, TP24
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: B
Segregation (IMDG)	: SG20
Properties and observations (IMDG)	: Liquid with chlorine odour. In contact with acids, evolves very irritating and corrosive gases. Mildly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C9
Special provisions (ADN)	: 521
Limited quantities (ADN)	:1L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C9
Special provisions (RID)	: 521
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Special packing provisions (RID)	: PP10, B5
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP2, TP24
Tank codes for RID tanks (RID)	: L4BV(+)

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Special provisions for RID tanks (RID)	: TE11
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 80

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
WGK remark	: Most stringent classification due to insufficient data
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product
15.2 Chamical safety assessment	

15.2. Chemical safety assessment No additional information available

SECTION 16: Other information

Sources of Key data : according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

Full text of H- and EUH-statements:		
Acute Tox. 2 (Inhalation) Acute toxicity (inhal.), Category 2		
Aquatic Acute 1	quatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
H400	Very toxic to aquatic life.	

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EUH031	Contact with acids liberates toxic gas.	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Corr. 1B	H314	Calculation method
Aquatic Acute 1	H400	Calculation method

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product