

## Melclorite 70/G

Version number: 4.0  
Replaces version of: 2013-11-06 (3)

Revision: 2017-10-20  
First version: 2010-11-11

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

#### 1.1 Product identifier

<b>Trade name</b>	<u>Melclorite 70/G</u>
<b>Registration number (REACH)</b>	not relevant (mixture)
<b>CAS number</b>	not relevant (mixture)

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

<b>Relevant identified uses</b>	Oxidizing agent Disinfectant Bleaching agent
<b>Uses advised against</b>	Do not use for squirting or spraying Do not use for products which come into direct contact with the skin

#### 1.3 Details of the supplier of the safety data sheet

Melspring International B.V. Arnhemsestraatweg 8 NL-6881 NG Velp Netherlands	Telephone: ++31 (0) 26 - 38420 - 00 Telefax: ++31 (0) 26 - 38420 - 11
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**e-mail (competent person)** [sdb@csb-online.de](mailto:sdb@csb-online.de)

Please do not use this e-mail adress to ask for the latest safety data sheet. For this purpose contact Melspring International B.V.

#### 1.4 Emergency telephone number

As above or next toxicological information centre.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification acc. to GHS				
Section	Hazard class	Category	Hazard class and category	Hazard statement
2.14	oxidising solid	2	Ox. Sol. 2	H272
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302

# Melchlorite 70/G

Classification acc. to GHS				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	1B	Skin Corr. 1B	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
4.1A	hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400

for full text of abbreviations: see SECTION 16

## The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

Spillage and fire water can cause pollution of watercourses.

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

**Signal word** danger

### Pictograms

GHS03, GHS05,  
GHS07, GHS09



### Hazard statements

**H272** May intensify fire; oxidiser.  
**H302** Harmful if swallowed.  
**H314** Causes severe skin burns and eye damage.  
**H400** Very toxic to aquatic life.

### Precautionary statements

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P221** Take any precaution to avoid mixing with combustibles.  
**P273** Avoid release to the environment.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P303+P361+P353** IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/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.  
**P310** Immediately call a POISON CENTER or doctor/physician.

# Melchlorite 70/G

## Supplemental hazard information

**EUH031** Contact with acids liberates toxic gas.

## Hazardous ingredients for labelling

Calcium hypochlorite

## 2.3 Other hazards

Warning! Do not use together with other products. May release dangerous gases (chlorine).

## Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.




## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Hazardous ingredients acc. to GHS					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	M-Factors
Calcium hypochlorite	CAS No 7778-54-3  EC No 231-908-7  Index No 017-012-00-7	≥ 70	Ox. Sol. 2 / H272 Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Acute 1 / H400		M-factor (acute) = 10.0
Calcium dihydroxide	CAS No 1305-62-0  EC No 215-137-3	1 – < 10	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335		
calcium chloride	CAS No 10043-52-4  EC No 233-140-8  Index No 017-013-00-2	1 – < 10	Eye Irrit. 2 / H319		

# Melchlorite 70/G

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Self-protection of the first aider.

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

Get medical advice/attention.

#### Following skin contact

Rinse skin with water/shower.

Call a physician immediately. Causes poorly healing wounds.

Wash contaminated clothing before reuse.

#### Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### Following ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Get medical advice/attention.

Provide fresh air.

#### Notes for the doctor

none

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

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

none

# Melchlorite 70/G

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

excess of water

#### Unsuitable extinguishing media

All but water

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

Hazardous decomposition products: Section 10.

Oxidising property.

In contact with Water, Combustible materials: Danger of fire, Explosion risk.

#### Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), hydrogen chloride (HCl), chlorine compound, toxic substances

### 5.3 Advice for firefighters

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

wear self-contained breathing apparatus

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

# Melchlorite 70/G

## 6.3 Methods and material for containment and cleaning up

### Advices on how to contain a spill

take up mechanically

### Advices on how to clean up a spill

Collect spillage.

### Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Do not breathe dust.

Used in Fume hood.

### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

### Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.

### Handling of incompatible substances or mixtures

#### Keep away from

organic absorbing material, pulp/paper

### Measures to protect the environment

Avoid release to the environment.

### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

# Melchlorite 70/G

## 7.2 Conditions for safe storage, including any incompatibilities

### Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharge.  
Keep valves and fittings free from oil and grease.

### Incompatible substances or mixtures

Incompatible materials: see section 10.  
Observe hints for combined storage.  
Keep/store away from clothing/combustible materials.  
Take any precaution to avoid mixing with combustibles.  
Store away from acids.  
Keep away from acids.  
Store away from reducing agents.

### Protect against external exposure, such as

heat, frost, direct light irradiation

### Consideration of other advice

Keep away from food, drink and animal feedingstuffs.  
Store in a dry place. Store in a closed container.  
Store in a well-ventilated place. Keep cool.  
Keep locked up and out of the reach of children.  
Protect against Impurities.

### Ventilation requirements

Provision of sufficient ventilation.

### Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
EU	calcium dihydroxide	1305-62-0	r	IOELV		1		4	2017/164/EU
GB	calcium hydroxide	1305-62-0		WEL		5			EH40/2005

#### Notation

r respirable fraction

# Melchlorite 70/G

## Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

### Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Calcium dihydroxide	1305-62-0	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Calcium dihydroxide	1305-62-0	DNEL	4 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
calcium chloride	10043-52-4	DNEL	5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
calcium chloride	10043-52-4	DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects

### Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
Calcium dihydroxide	1305-62-0	PNEC	0.49 mg/l	freshwater
Calcium dihydroxide	1305-62-0	PNEC	0.32 mg/l	marine water
Calcium dihydroxide	1305-62-0	PNEC	3 mg/l	sewage treatment plant (STP)
Calcium dihydroxide	1305-62-0	PNEC	1,080 mg/kg	soil

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Hand protection



# Melchlorite 70/G

Material	Material thickness	Breakthrough times of the glove material
no information available	no information available	no information available

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

## Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	solid
Form	granulate
Colour	white
Odour	like chlorine
Odour threshold	these information are not available

#### Other safety parameters

pH (value)	not applicable
Melting point/freezing point	not applicable (spontaneous decomposition)
Initial boiling point and boiling range	not applicable
Flash point	not applicable
Evaporation rate	not applicable
Flammability (solid, gas)	non-combustible
Explosion limits of dust clouds	these information are not available
Vapour pressure	not applicable
Density	these information are not available
Vapour density	not applicable

# Melchlorite 70/G

Bulk density	2 g/cm <sup>3</sup>
Relative density	1 (water = 1)
<b>Solubility(ies)</b>	
<b>Water solubility</b>	200,000 mg/kg at 20 °C, not miscible in any proportion
<b>Partition coefficient</b>	
n-octanol/water (log KOW)	these information are not available
Auto-ignition temperature	not relevant (Solid matter)
Relative self-ignition temperature for solids	these information are not available
Decomposition temperature	none
<b>Viscosity</b>	
<b>Kinematic viscosity</b>	not relevant (solid matter)
<b>Dynamic viscosity</b>	not relevant (solid matter)
Explosive properties	not explosive
Oxidising properties	oxidiser

## 9.2 Other information

Self-Accelerating Decomposition Temperature: >=180°C.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture contains reactive substance(s).

Oxidising property.

If heated:

slow decomposition of the material

### 10.2 Chemical stability

See below "Conditions to avoid".

Spontaneous decomposition of the material.

### 10.3 Possibility of hazardous reactions

Risk of vigorous reaction, ignition and explosion in contact with combustible or flammable substances, Reducing agents.

Substances Contains Nitrogen: Explosive, Toxic substances.

Dangerous/dangerous reactions with: Acids.

# Melchlorite 70/G

## 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Humidity.  
High temperatures (>180°C)

## 10.5 Incompatible materials

water, acids, reducing agents, Combustible materials, amine, ammonia (NH<sub>3</sub>), metallic oxides containing heavy metals  
Release of toxic materials with:  
acids

## 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.  
Hazardous combustion products: see section 5.  
Oxygen.  
Toxic substances: Chlorine, Hydrogen chloride (HCl).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Classification procedure

If not otherwise specified the classification is based on:  
Ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Shall not be classified as acutely toxic (dermal).  
Harmful if swallowed.

#### Inhalation.

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Exposure route	Endpoint	Value	Species
oral	LD50	790 - 1,260 mg/kg	rat
dermal	LD50	>2,000 mg/kg	rabbit

#### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
Calcium dihydroxide	1305-62-0	oral	LD50	>2,000 mg/kg	rat	OECD Guideline 425	ECHA

## Melchlorite 70/G

Acute toxicity of components of the mixture							
Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
Calcium dihydroxide	1305-62-0	dermal	LD50	>2,500 mg/kg	rabbit	OECD Guideline 402	ECHA
calcium chloride	10043-52-4	oral	LD50	2,120 mg/kg	rat	OECD Guideline 401	ECHA
calcium chloride	10043-52-4	dermal	LD50	>5,000 mg/kg	rabbit		ECHA

### Skin corrosion/irritation

Causes severe skin burns and eye damage.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

#### Skin sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Respiratory sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

# Melclorite 70/G

## Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Very toxic to aquatic organisms.

Endpoint	Value	Species	Exposure time
LC50	0.15 mg/l	fish	96 h
LC50	0.22 mg/l	fish	96 h

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
Calcium dihydroxide	1305-62-0	LC50	457 mg/l	three-spined stickleback (Gasterosteus aculeatus)		ECHA	96 h
Calcium dihydroxide	1305-62-0	EC50	49.1 mg/l	daphnia magna	OECD Guideline 202	ECHA	48 h
Calcium dihydroxide	1305-62-0	ErC50	184.6 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
calcium chloride	10043-52-4	LC50	4,630 mg/l	fathead minnow (pimephales promelas)		ECHA	96 h
calcium chloride	10043-52-4	LC50	2,400 mg/l	daphnia magna	OECD Guideline 202	ECHA	48 h
calcium chloride	10043-52-4	EC50	2,900 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
calcium chloride	10043-52-4	ErC50	>4,000 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h

# Melchlorite 70/G

## Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

## Aquatic toxicity (chronic) of components of the mixture

Name of sub-stance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
Calcium di-hydroxide	1305-62-0	LC50	53.1 mg/l	Crustaceae (Crangon sp.)		ECHA	14 d
Calcium di-hydroxide	1305-62-0	EC50	300.4 mg/l	microorganisms	OECD Guideline 209	ECHA	3 h
Calcium di-hydroxide	1305-62-0	NOEC	32 mg/l	Crustaceae (Crangon sp.)		ECHA	14 d
calcium chloride	10043-52-4	LC50	920 mg/l	daphnia magna		ECHA	21 d
calcium chloride	10043-52-4	EC50	610 mg/l	daphnia magna		ECHA	21 d

## 12.2 Persistence and degradability

### Biodegradation

The study does not need to be conducted, the relevant substances in the mixture are inorganic.

### Persistence

Data are not available.

## 12.3 Bioaccumulative potential

Data are not available.

## 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Other adverse effects

Data are not available.

### Endocrine disrupting potential

None of the ingredients are listed.

### Remarks

Wassergefährdungsklasse, WGK (water hazard class): 2 Keep away from drains, surface and ground water.

# Melchlorite 70/G

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself.


#### Remarks

Please consider the relevant national or regional provisions.


## SECTION 14: Transport information

14.1	UN number	3487
14.2	UN proper shipping name	CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, CORROSIVE
14.3	Transport hazard class(es)	
	Class	5.1
	Subsidiary risk(s)	8 (corrosive effects)
14.4	Packing group	II
14.5	Environmental hazards	hazardous to the aquatic environment
	Environmentally hazardous substance (aquatic environment)	Calcium hypochlorite
14.6	Special precautions for user	
		Provisions for dangerous goods (ADR) should be complied within the premises.
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	
		The cargo is not intended to be carried in bulk.
14.8	<u>Information for each of the UN Model Regulations</u>	
	<b>Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)</b>	
	UN number	3487
	Proper shipping name	UN3487, CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, CORROSIVE, 5.1 (8), II, (E), environmentally hazardous
	Class	5.1

## Melchlorite 70/G

Classification code	OC2
Packing group	II
Danger label(s)	5.1+8, fish and tree
	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	314, 322
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
Transport category (TC)	2.
Tunnel restriction code (TRC)	E
Hazard identification No	58
Emergency Action Code	1W


### International Maritime Dangerous Goods Code (IMDG)

UN number	3487
Proper shipping name	UN3487, CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, CORROSIVE, 5.1 (8), II, MARINE POLLUTANT
Class	5.1
Subsidiary risk(s)	8
Marine pollutant	yes (P) (hazardous to the aquatic environment)
Packing group	II
Danger label(s)	5.1+8, fish and tree
	
Special provisions (SP)	314, 322
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
EmS	F-H, S-Q
Stowage category	D
Segregation group	8 - Hypochlorites.



# Melchlorite 70/G

## International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	3487
Proper shipping name	UN3487, Calcium hypochlorite, hydrated mixture, corrosive, 5.1 (8), II
Class	5.1
Subsidiary risk(s)	8
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	II
Danger label(s)	5.1+8
	
Special provisions (SP)	A8, A136
Excepted quantities (EQ)	E2
Limited quantities (LQ)	2,5 kg

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### List of substances subject to authorisation (REACH, Annex XIV)

none of the ingredients are listed

#### Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
P8	oxidising liquids and solids	50                      200	55)

#### Notation

55) oxidising liquids, category 1, 2 or 3, or oxidising solids, category 1, 2 or 3

#### Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

# Melchlorite 70/G

## Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

## Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

none of the ingredients are listed

## Regulation 98/2013/EU on the marketing and use of explosives precursors

none of the ingredients are listed

## Regulation 648/2004/EC on detergents

Labelling of contents	
Wt%	Constituents
≥30%	chlorine-based bleaching agents

## Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

Chemicals subject to the international prior informed consent (PIC) procedure (the 'PIC procedure').

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Indication of changes: Section 2, 7, 8, 15

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/164/EU	Comission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)

## Melchlorite 70/G

Abbr.	Descriptions of used abbreviations
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
Ox. Sol.	Oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average

# Melchlorite 70/G

Abbr.	Descriptions of used abbreviations
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

## Responsible for the safety data sheet

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## Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.