BLEACHING POWDER EXTRA PURE MSDS



CAS-No.: 7778-54-3 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

1.1. Product identifier					
Product form	: Substance				
EC Index-No.	: 017-012-00-7				
EC-No. : 231-908-7					
CAS-No. : 7778-54-3					
Product code	: 02192				
Chemical structure	Ca(OCI) ₂				
Synonyms	: CALCIUM HYPOCHLORITE				
1.2. Relevant identified	uses of the substance or mixture and uses advised against				
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A.O.A. Delevered televetification					
	Ises : Laboratory chemicals, Manufacture of substances				
Jse of the substance/mixture	: Laboratory chemicals, Manufacture of substances				
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2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

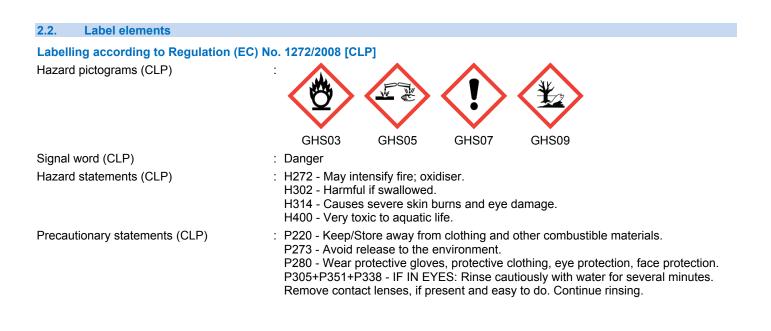
Oxidising Solids, H272 Category 2 Acute toxicity (oral), H302 Category 4 Skin corrosion/irritation, H314 Category 1B Hazardous to the aquatic H400 environment — Acute Hazard, Category 1

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

O; R8 Xn; R22 C; R34 N; R50 R31 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available



2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	: BLEACHING POWDER Extra Pure	
CAS-No.	: 7778-54-3	
EC-No.	: 231-908-7	
EC Index-No.	: 017-012-00-7	
EC Index-No.	: 017-012-00-7	

Full text of R- and H-statements: see section 16

3.2.	Mixtures	
Not appl	icable	
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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. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: May intensify fire; oxidiser.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
5.3. Advice for firefighters	
Firefighting instructions	: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
SECTION 6: Accidental release measures	3
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: No open flames. No smoking.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Hazardous waste due to potential risk of explosion.
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Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Take precautionary measures against static discharge.		
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
7.2. Conditions for safe storage,	including any incompatibilities		
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.		
Storage conditions	: Keep in fireproof place. Store in a well-ventilated place.		
Incompatible materials	: Heat sources. combustible materials.		
7.3. Specific end use(s)			
No additional information available			

8.1. Control parameters

No additional information available

	8.2. Exposure controls	
Personal protective equipment		: Wear fire/flame resistant/retardant clothing.
Hand protection		: Protective gloves
	Eye protection	: Chemical goggles or face shield
Skin and body protection		: Wear suitable protective clothing
	Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Molecular mass Colour	: 142.99 g/mol : White powder.	
Odour	: chlorine-like odor.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 100 °C	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Auto-ignition temperature	: No data available	

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Flammability (solid, gas) : No data available		
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density Solubility	: 2.35 g/cm³ : Water: Soluble in water	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: May cause fire or explosion; strong oxidiser.	
Explosive limits	: No data available	
9.2. Other information No additional information available SECTION 10: Stability and reactivity		
10.1. Reactivity		
Thermal decomposition generates : Corrosive vapours.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reaction	ons	
Highly reactive material. Contact with acids liberates toxic gas.		
10.4. Conditions to avoid		
Heat. Sparks. Open flame.		
10.5. Incompatible materials		

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

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Reproductive toxicity	: Not classified	
Carcinogenicity	: Not classified	
Germ cell mutagenicity	: Not classified	
Respiratory or skin sensitisation	: Not classified	
Serious eye damage/irritation	: Serious eye damage, category 1, implicit	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Acute toxicity	: Oral: Harmful if swallowed.	
11.1. Information on toxicologic		
SECTION 11: Toxicological informa		
SECTION 11, Taxical animal informa	tion	

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STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life.
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 asse	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to hazardous or special waste collection point, in
recommendations	accordance with local, regional, national and/or international regulation.
Additional information	: Hazardous waste due to potential risk of explosion.
SECTION 14: Transport information	

In accordance with ADR / RID / IMDG / IATA / ADN

14.1.	UN number		
UN-No.	(ADR)	:	1748
UN-No.	(IMDG)	:	1748
UN-No.	(IATA)	:	1748
UN-No.	(ADN)	:	1748
UN-No.	(RID)	:	1748

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14.2. UN proper shipping name		
Proper Shipping Name (ADR) : CALCIUM HYPOCHLORITE, DRY		
Proper Shipping Name (IMDG)	: CALCIUM HYPOCHLORITE, DRY	
Proper Shipping Name (IATA) : Calcium hypochlorite, dry		
Proper Shipping Name (ADN)	: CALCIUM HYPOCHLORITE, DRY	
Proper Shipping Name (RID)	: CALCIUM HYPOCHLORITE, DRY	
Transport document description (ADR)	: UN 1748 CALCIUM HYPOCHLORITE, DRY, 5.1, II, (E), ENVIRONMENTALLY HAZARDOUS	
Transport document description (IMDG)	: UN 1748 CALCIUM HYPOCHLORITE, DRY, 5.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	
Transport document description (IATA)	: UN 1748 Calcium hypochlorite, dry, 5.1, II, ENVIRONMENTALLY HAZARDOUS	
Transport document description (ADN)	: UN 1748 CALCIUM HYPOCHLORITE, DRY, 5.1, II, ENVIRONMENTALLY HAZARDOUS	
Transport document description (RID)	: UN 1748 CALCIUM HYPOCHLORITE, DRY, 5.1, II, ENVIRONMENTALLY HAZARDOUS	

14.3. Transport hazard class(es)		
ADR		
Transpo	ort hazard class(es) (ADR)	
Danger labels (ADR)		

:	5.1	
:	5.1	

:



IMDG

Transport hazard class(es) (IMDG)	
Danger labels (IMDG)	

: 5.1 : 5.1



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Transport hazard class(es) (IATA)	
Hazard labels (IATA)	



Transport hazard class(es) (ADN)	
Danger labels (ADN)	

:

: 5.1 : 5.1







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RID	
Transport hazard class(es) (RID)	: 5.1
Danger labels (RID)	: 5.1



14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: 11
Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: 02
Special provisions (ADR)	: 314
Limited quantities (ADR)	: 1kg
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P002, IBC08
Special packing provisions (ADR)	: B4, B13
Mixed packing provisions (ADR)	: MP10
Tank code (ADR)	: SGAN
Tank special provisions (ADR)	: TU3
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V11
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV24, CV35
Hazard identification number (Kemler No.)	: 50
Orange plates	[:] 50
	50
	1748
Tunnel restriction code (ADR)	: E
EAC code	: 1W
- Transport by sea	
Special provisions (IMDG)	: 314
Packing instructions (IMDG)	: P002
Special packing provisions (IMDG)	: PP85
EmS-No. (Fire)	· F-H
EmS-No. (Spillage)	: S-Q
Stowage category (IMDG)	: D
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Stowage and handling (IMDG)	: SW1, SW11
Segregation (IMDG)	: SG35, SG38, SG49, SG53, SG60
Properties and observations (IMDG)	: White or yellowish solid (powder, granules or tablets) with chlorine-like odour. Soluble in water. May cause fire in contact with organic material or ammonium compounds. Substances are liable to exothermic decomposition at elevated temperatures. This condition may lead to fire or explosion. Decomposition can be initiated by heat or by impurities (e.g. powdered metals (iron, manganese, cobalt, magnesium) and their compounds). Liable to heat slowly. Reacts with acids, evolving chlorine, an irritating, corrosive and toxic gas. In the presence of moisture, corrosive to most metals. Dust irritates mucous membranes.
MFAG-No	: 140
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y544
PCA limited quantity max net quantity (IATA)	: 2.5kg
PCA packing instructions (IATA)	: 558
PCA max net quantity (IATA)	: 5kg
CAO packing instructions (IATA)	: 562
CAO max net quantity (IATA)	: 25kg
Special provisions (IATA)	: A136, A803
ERG code (IATA)	: 5L
- Inland waterway transport	
Classification code (ADN)	: 02
Special provisions (ADN)	: 314
Limited quantities (ADN)	: 1 kg
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: O2
Special provisions (RID)	: 314
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4, B13
Mixed packing provisions (RID)	: MP10
Tank codes for RID tanks (RID)	: SGAN
Special provisions for RID tanks (RID)	: TU3
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W11
Special provisions for carriage - Loading, unloading and handling (RID)	: CW24, CW35
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 50

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No REACH Annex XVII restrictions

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BLEACHING POWDER Extra Pure is not on the REACH Candidate List BLEACHING POWDER Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV; ID No. 2062)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

15.2.	Chemical safety assessment
No addit	ional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R34	Causes burns

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R50	Very toxic to aquatic organisms
R8	Contact with combustible material may cause fire
С	Corrosive
Ν	Dangerous for the environment
0	Oxidising
Xn	Harmful

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