

SAFETY DATA SHEETS

This SDS packet was issued with item:

078916936

N/A



SECTION 1: IDENTIFICATION	
1.1 Product identifier	
Product name:	Osphos® (60 mg/ml Solution for Injection)
Synonyms:	Not Available
Proper Shipping name:	Not applicable
Other means of identification:	None
1.2 Relevant identified uses of the substances or mixture and uses advised against	
Recommended uses:	Solution for injection for the control of clinical signs associated with the bone resorptive processes of navicular syndrome in horses.
Uses advised against:	Not for human use. Not to be used in horses intended for human consumption. Treated horses may never be slaughtered for human consumption.
1.3 Details of the supplier of the substance or mixture	
Registered company name (UK):	Dechra Ltd
Address:	Snaygill Industrial Estate Keighley Road Skipton North Yorkshire BD23 2RW UK
Telephone:	+44 (0) 1756 791311
Fax:	+44 (0) 1756 798604
Website:	www.dechra.com
Email:	Not available
Registered company name (US):	Dechra Veterinary Products
Address:	Dechra Pharmaceutical Products 7015 College Blvd Suite 525 Overland Park KS 66211 USA
Telephone:	866-933-2472
Fax:	Not available

Website:	www.dechra.com
Email:	Not available
1.4 Emergency Telephone Numbers	
Dechra (US):	866-933-2472

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
 Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments.
 Not classified as Dangerous Goods for transport purposes (EU).

Considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not classified as Dangerous Goods for transport purposes (US).

DSD Classification (EU):	In case of mixtures, classification has been prepared by following DPD (Directive 1999/45/EC) and CLP Regulation (EC) No 1272/2008 regulations
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DPD Classification (EU)¹:	R63(3): Possible risk of harm to the unborn child
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Legend:	1. Classified by Chemwatch
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Classification according to regulation (EC) No 1272/2008 [CLP] (EU)¹:	H361: Reproductive Toxicity Category 2
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Legend:	1. Classified by Chemwatch
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Classification (US):	Eye Irritation Category 2B, Reproductive Toxicity Category 2
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2.2 Label Elements

GHS Label Elements:	
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Signal Word:	WARNING
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Hazard statement(s):

H303	May be harmful if swallowed.
H320	Causes eye irritation.
H361	Suspected of damaging fertility or the unborn child.

Precautionary Statement(s) Prevention:

P201	Obtain special instructions before use.
P264	Wash all exposed external body areas thoroughly after handling.
P281	Use personal protective equipment as required.



Precautionary Statement(s) Response:	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary Statement(s) Storage:	
P405	Store locked up.
Precautionary Statement(s) Disposal:	
P501	Dispose of contents/container in accordance with local regulations.
2.3 Other Hazard Information Ingestion may produce health damage* Cumulative effects may result following exposure* May produce discomfort of the eyes* REACH (EU) Article 57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.	

SECTION 3: INFORMATION ON THE INGREDIENTS				
3.1 Substances				
See section below for composition of mixtures				
3.2 Mixtures				
1.CAS No 2.EC Number 3.Index Number 4.REACH Number	% Weight	Name	Classification according to directive 67/548/EEC [DSD] (EU)	Classification according to regulations (EC) No 1272/2008 [CLP] (EU)
1. 22560-50-5 2. 245-078-9 3. Not Available 4. Not Available	6	Clodronic Acid (51mg/ml) as Disodium Clodronate (60mg/ml)	R53, R63(3) ¹	Reproductive Toxicity Category 2, Chronic Aquatic Hazard Category 4; H361, H413 ¹
1. 1310-73-2 2. 215-185-5 3. 011-002-00-6 4. 01-2119457892-27-XXXX,	<0.1	Sodium Hydroxide	R35 ²	Skin Corrosion/Irritation Category 1A; H314 ³

01-2119982981-22-XXXX				
Legend:	1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 – Annex VI			

SECTION 4: FIRST AID MEASURES	
4.1 Description of first aid measures	
Eye contact:	Accidental spillage on the eyes should be washed off with plenty of water. If pain or irritation occurs, seek medical advice and show the package leaflet or the label to the medical practitioner.
Skin contact:	Accidental spillage on the skin should be washed off with plenty of water. If irritation occurs, seek medical advice and show the package leaflet or the label to the medical practitioner.
Inhalation:	Inhalation is highly unlikely due to the nature of the product and how it is packaged and administered. If irritation or difficulty in breathing occurs, seek urgent medical advice and show the package leaflet or the label to the medical practitioner. Remove the patient from the contaminated area. Lay the patient down, keep warm and rested.
Ingestion:	Ingestion is highly unlikely due to the nature of the product and how it is packaged and administered. If swallowed, seek urgent medical advice and show the package leaflet or the label to the medical practitioner. Remove material and give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
Self-injection:	Care should be taken when handling the product to avoid self-injection, especially by pregnant women. Read the package leaflet before use for full instructions and user warnings.
4.2 Most important symptoms and effects, both acute and delayed	
See Section 11	
4.3 Indication of immediate medical attention and special treatment needed	
Not applicable	



SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media	
Suitable:	Select extinguishing media suitable for surrounding area
Unsuitable:	There is no restriction on the type of extinguisher which may be used
5.2 Special hazards arising from the substance or mixture	
Fire incompatibility:	None known
5.3 Special protective actions for fire-fighters:	
Firefighting:	Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses DO NOT approach containers suspected to be hot. Equipment should be thoroughly decontaminated after use.
Fire / explosion hazard:	Non-combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. May emit corrosive fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
For information on protective equipment, see section 8	
6.2 Environmental Precautions	
See section 12	
6.3 Methods and material for containment and cleaning up	
Spills are unlikely due to the nature of the product and how it is packaged	
Minor Spills:	Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Place in a suitable, labelled container for waste disposal.
Major Spills:	Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of the hazard. Contain and absorb spill with sand, earth, inert material or vermiculite. Prevent, by any means available, spillage from entering drains or water course.



SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe Handling:	<p>Wear suitable protection gloves and clothing when handling the product. When handling, DO NOT eat, drink or smoke. Always wash hands with water after handling. In case of accidental self-injection seek medical advice immediately and show the package leaflet or the label to the physician. Observe manufacturer's storage and handling recommendations.</p>
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Other Information:	<p>Do not store above 25°C. Discard unused material. Keep out of the reach and sight of children.</p>
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7.2 Conditions for safe storage, including any incompatibilities

Suitable Container:	<p>Keep the container in the outer carton. Check that containers are clearly labelled. Once broached use immediately. The diluted infusion solution may be stored for up to 24 hours at room temperature. Shelf life of the veterinary medicinal product as packaged for sale: 2 years.</p>
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Storage incompatibility:	No known incompatibilities.
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7.3 Specific end uses

Not available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

DERIVED NO EFFECT LEVEL - DNEL (EU)

Not Available





PREDICTED NO EFFECT LEVEL - PNEC (EU)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)



INGREDIENT DATA (EU):						
Source	Ingredient	Material Name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits (WELs)	Sodium Hydroxide	Sodium Hydroxide	Not Available	2 mg/m ³	Not Available	Not Available
INGREDIENT DATA (US):						
Source	Ingredient	Material Name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	Sodium Hydroxide	Sodium Hydroxide	2 mg/m ³	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	Sodium Hydroxide	Sodium Hydroxide	Not Available	Not Available	2 mg/m ³	TLV® Basis: URT, eye, & skin irritation
US NIOSH Recommended Exposure Limits (RELs)	Sodium Hydroxide	Caustic soda, Lye, Soda lye, Sodium hydrate	Not Available	Not Available	2 mg/m ³	Not Available
EMERGENCY LIMITS (EU/US):						
Ingredient	Material Name	TEEL-1	TEEL-2	TEEL-3		
Sodium Hydroxide	Sodium Hydroxide	Not Available	Not Available	Not Available		
Ingredient	Original IDLH	Revised IDLH				
Clodronic acid (Disodium Clodronate)	Not Available	Not Available				
Sodium Hydroxide	250 mg/m ³	10 mg/m ³				
Water	Not Available	Not Available				
8.2 Exposure controls						
Appropriate engineering controls:	The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the particular risk.					

Personal protection:	   
Eye and face protection:	Safety glasses with side shields / chemical goggles
Skin protection:	See hand protection below
Hands/ feet protection:	No special equipment needed when handling small quantities. OTHERWISE: Wear chemical protective gloves
Body protection:	Wear appropriate clothing
Other protection:	No special equipment needed when handling small quantities
Thermal hazards:	Not applicable
Respiratory protection:	Not applicable
8.3 Environmental exposure controls	
See Section 12	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Osphos: Clear and colourless aqueous solution
 Clodronic acid (Disodium Clodronate): White crystalline powder
Container: cardboard carton containing a clear 15ml Type I glass vial with a grey siliconised rubber stopper and aluminium seal.
Physical state: Liquid
Odour: Not available
Odour Threshold: Not available
pH (as supplied): 3.8 – 4.5
Melting point / freezing point (degrees C): Not available
Initial boiling point and boiling range: Not available
Flash Point: In water – no flash point
Evaporation rate: Not available
Flammability: Not available
Upper/lower flammability or explosive limits: Not available
Vapour pressure: Not available
Relative Density (at degrees C): Not available
Solubility in water and solvents (mg/l): Freely soluble (water)
 Chloroform – Practically insoluble
 Benzene – Practically insoluble
 Ethylether – Practically insoluble
Vapour density: Not available
Auto ignition temperature (degrees C): Not available
Decomposition temperature (degrees C): Not available
Viscosity: (degrees C): Not available
Explosive properties: Not available
Oxidising properties: Not available
Partition Coefficient: Not available
Molecular weight: Disodium Clodronate: 360.93 (anhydrous: 288.9)
Taste: Not available
Surface tension: Not available
Volative component: Not available
Gas group: Not available
pH as a solution: Not available
VOC g/L: Not available

9.2 Other information
 Not Available

10: REACTIVITY AND STABILITY

10.1 Reactivity:	See Section 7
10.2 Chemical stability:	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3 Possibility of	The product is not considered to be hazardous if used as per

hazardous reactions:	instructions. Hazardous polymerisation will not occur.
10.4 Conditions to avoid:	See Section 7.
10.5 Incompatible materials:	See section 7.
10.6 Hazardous decomposition:	See Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION					
Inhalation:	The material can cause respiratory irritation in some persons.				
Ingestion:	Accidental ingestion of the material may be damaging to the health of the individual.				
Skin contact:	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). The acids and salts of ATMP, HEDP and DTPMP have a low level of acute skin toxicity. ATMP acid and its salts, in testing, were found to be practically non-toxic.				
Eye contact:	Can cause eye irritation in some persons. The phosphonic acid compounds, ATMP, HEDP, DTPMP and their salts vary in their potential to irritate the eye, from virtually non-irritating to severely irritating with irreversible effects.				
Chronic:	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Exposure to small quantities may induce hypersensitivity reactions characterised by acute bronchospasm, hives (urticaria), deep dermal wheals (angioneurotic oedema), running nose (rhinitis) and blurred vision. Anaphylactic shock and skin rash (non-thrombocytopenic purpura) may occur.				
Self-injection:	The most common adverse effects include gastrointestinal disturbances. In general, clodronate is well tolerated following intravenous, intramuscular or oral administration.				
Osphos:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Toxicity</th> <th style="width: 50%;">Irritation</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Not Available</td> <td style="text-align: center;">Not Available</td> </tr> </tbody> </table>	Toxicity	Irritation	Not Available	Not Available
Toxicity	Irritation				
Not Available	Not Available				

SECTION 11: TOXICOLOGICAL INFORMATION		
Clodronic acid (Disodium Clodronate):	Acute toxicity	Irritation
	Oral (mouse) LD ₅₀ : >2000 mg/kg ² The most common adverse effects include gastrointestinal disturbances, including nausea, and vomiting and diarrhoea, following oral administration of clodronate which can be alleviated by dividing or lowering the dosage. In most cases, these effects are mild and transient. In general, clodronate is well tolerated following intravenous, intramuscular or oral administration.	Not available
Sodium Hydroxide:	Toxicity	Irritation
	Oral (rabbit) LD ₅₀ : 325 mg/kg ¹	Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Skin (rabbit): 500 mg/24h SEVERE
Water:	Toxicity	Irritation
	Oral (rat) LD ₅₀ : >90000 mg/kg ²	Not Available
<i>1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified, data extracted from RTECS - Register of Toxic Effect of chemical Substances</i>		
Skin corrosion/ irritation:		
Not Available		
Serious eye damage/ irritation:		
Sodium Hydroxide may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
Respiratory or skin sensitization:		
Not Available		



SECTION 11: TOXICOLOGICAL INFORMATION

Germ cell mutagenicity:
Not Available
Carcinogenicity:
Not Available
Reproductive toxicity:
In rat studies, Disodium Clodronate is shown to have detrimental effects during pregnancy.
STOT – single exposure:
Not Available
STOT–repeated exposure:
Not Available
Aspiration hazard:
Not Available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ingredient	Endpoint	Test duration (hr)	Species	Value	Source
Sodium Hydroxide	LC ₅₀	96	Fish	4.16158mg/L	1
Sodium Hydroxide	EC ₅₀	96	Algae or other aquatic plants	1034.10043mg/L	1
Sodium Hydroxide	EC ₅₀	384	Crustacea	27901.643mg/L	1
Sodium Hydroxide	NOEC	96	Fish	56mg/L	2
Legend:			1. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 2. US EPA, Ecotox database - Aquatic Toxicity Data		

DO NOT discharge into sewer or waterways.

12.2 Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Sodium Hydroxide	LOW	LOW
Water	LOW	LOW

12.3 Bioaccumulative potential



Ingredient	Bioaccumulative Potential
Sodium Hydroxide	LOW (LogKOW = -3.8796)
Water	LOW (LogKOW = -1.38)
12.4 Mobility in Soil	
Ingredient	Mobility
Sodium Hydroxide	LOW (KOC = 14.3)
Water	LOW (KOC = 14.3)
12.5 Results of PBT and vPvB assessment Not Applicable	
12.6 Other adverse effects Not Available	

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / packaging disposal:	<p>Any unused veterinary medicinal product or waste material derived from such veterinary medicinal products should be disposed of in accordance with national requirements.</p> <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails)</p> <p>Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.</p>
Waste Treatment Options:	Not Available
Sewage Disposal Options:	Not Available



SECTION 14: TRANSPORT INFORMATION		
Labels required:		
Marine pollutant:	NO	
Hazchem:	Not Applicable	
Land transport (EU: ADR / US: DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		
14.1 UN Number	N/a	
14.2 UN Proper Shipping Name	N/a	
14.3 Transport hazard class(es)	Class	N/a
	Sub risk	N/a
14.4 Packing group	N/a	
14.5 Environmental hazards	N/a	
14.6 Special precautions for user	Special provisions	N/a
	Limited quantity	N/a
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	
Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		
14.1 UN Number	N/a	
14.2 UN Proper Shipping Name	N/a	
14.3 Transport hazard class(es)	ICAO/IATA Class	N/a
	ICAO / IATA Sub risk	N/a
	ERG Code	N/a
14.4 Packing group	N/a	
14.5 Environmental hazards	N/a	
14.6 Special precautions for user	Special provisions	N/a
	Cargo only packing instructions	N/a



	Cargo only maximum qty/pack	N/a
	Passenger and cargo packaging instructions	N/a
	Passenger and cargo maximum qty/pack	N/a
	Passenger and cargo limited quantity packing instructions	N/a
	Passenger and cargo limited maximum qty/pack	N/a
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	
Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		
14.1 UN Number	N/a	
14.2 UN Proper Shipping Name	N/a	
14.3 Transport hazard class(es)	IMDG Class	N/a
	IMDG Sub risk	N/a
14.4 Packing group	N/a	
14.5 Environmental hazards	N/a	
14.6 Special precautions for user	EMS Number	N/a
	Special provisions	N/a
	Limited quantities	N/a
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	
Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		



14.1 UN Number	N/a	
14.2 UN Proper Shipping Name	N/a	
14.3 Transport hazard class(es)	N/a	N/a
14.4 Packing group	N/a	
14.5 Environmental hazard	N/a	
14.6 Special precautions for user	Classification Code	N/a
	Special provisions	N/a
	Limited quantity	N/a
	Equipment required	N/a
	Fire cones number	N/a
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	

SECTION 15: REGULATORY INFORMATION

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

CLODRONIC ACID (DISODIUM CLODRONATE) (22560-50-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS:

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

SODIUM HYDROXIDE (1310-73-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS:

- European Customs Inventory of Chemical Substances ECICS (English)
- European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)
- European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31
- European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI
 - UK Workplace Exposure Limits (WELs)
- US - Alaska Limits for Air Contaminants
- US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)
- US - California Permissible Exposure Limits for Chemical Contaminants
- US - Hawaii Air Contaminant Limits
- US - Idaho - Limits for Air Contaminants
- US - Massachusetts - Right To Know Listed Chemicals
- US - Michigan Exposure Limits for Air Contaminants
- US - Minnesota Permissible Exposure Limits (PELs)
- US - Oregon Permissible Exposure Limits (Z-1)
- US - Pennsylvania - Hazardous Substance List
- US - Rhode Island Hazardous Substance List
- US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
- US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
- US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
- US - Washington Permissible exposure limits of air contaminants
- US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
- US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
- US ACGIH Threshold Limit Values (TLV)
- US CWA (Clean Water Act) - List of Hazardous Substances
- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Levels (PELs) - Table Z1
- US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory



This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable: 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments.

FEDERAL REGULATIONS:

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard Categories

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	Yes
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

US. EPA Cercla Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Sodium hydroxide	1000	454

STATE REGULATIONS:

US. CALIFORNIA PROPOSITION 65

None reported

15.2 Chemical Safety Assessment

ECHA SUMMARY

Ingredient	CAS number	Index Number	ECHA Dossier
Clodronic acid (Disodium Clodronate)	22560-50-5	Not Available	Not Available

Harmonization (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	STOT RE 2, Aquatic Chronic 2	GHS09, GHS08, Wng	H373
2	STOT RE 2, Aquatic Chronic 2	GHS09, GHS08, Wng	H373
1	Acute Tox. 4, Repr. 2, Aquatic Chronic 3	GHS07, GHS08, Wng	H302, H332, H361
2	Acute Tox. 4, Repr. 2, Aquatic Chronic 3	GHS08, Wng	H302, H332, H361

Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification



Ingredient	CAS Number	Index Number	ECHA Dossier
Sodium Hydroxide	1310-73-2	011-002-00-6	01-2119457892-27-XXXX, 01-2119982981-22-XXXX

Harmonization (C&L Inventory)	Hazard Class and Category Code(s)	Index Number	ECHA Dossier
1	Skin Corr. 1A	GHS05, Dgr	H314
2	Skin Corr. 1A	GHS05, Dgr	H314
1	Skin Corr. 1A	GHS05, Dgr	H314
2	Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1, Acute Tox. 4, Skin Corr. 1B, STOT SE 3, Eye Irrit. 2, Aquatic Chronic 3, STOT SE 1, Skin Corr. 1C, Aquatic Acute 3	GHS05, Dgr, GHS06, GHS08	H290, H314, H312, H318, H335, H370, H302
1	Skin Corr. 1A	GHS05, Dgr	H314
2	Skin Corr. 1A	GHS05, Dgr	H314, H302
Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification			

Ingredient	CAS Number	Index Number	ECHA Dossier
Water	7732-18-5	Not Available	Not Available

Harmonization (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Not Classified	GHS06, GHS05, Dgr, GHS02, Wng	H301, H226, H314
2	Acute Tox. 3, Skin Corr. 1A, Acute Tox. 2, Flam. Liq. 3	GHS06, GHS05, Dgr, GHS02, Wng	H301, H226, H314
Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification			

National Inventory	Status
Australia - AICS	N (clodronic acid, sodium salt)
Canada - DSL	N (clodronic acid, sodium salt)



Canada - NDSL	N (clodronic acid, sodium salt, water, sodium hydroxide)
China - IECSC	N (clodronic acid, sodium salt)
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (clodronic acid, sodium salt, water)
Korea - KECI	N (clodronic acid, sodium salt)
New Zealand - NZIoC	N (clodronic acid, sodium salt)
Philippines - PICCS	N (clodronic acid, sodium salt)
USA - TSCA	N (clodronic acid, sodium salt)
Legend:	<i>Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i>

SECTION 16: OTHER INFORMATION

The SDS is written in accordance to guidelines specified by REACH, GHS, OSHA and ECHA.

Full text Risk and Hazard codes:

H226	Flammable liquid and vapour
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H413	May cause long lasting harmful effects to aquatic life
R35	Causes severe burns
R53	May cause long-term adverse effects in the aquatic environment

Ingredients with multiple CAS numbers:

Name	CAS Number
Clodronic acid (Disodium Clodronate)	22560-50-5, 88416-50-6
Sodium Hydroxide	1310-73-2, 12200-64-5

Relevant risk statements are found in section 2.1

Indication(s) of danger	Xn
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S02	Keep out of reach of children
S23	Do not breathe gas/fumes/vapour/spray
S35	This material and its container must be disposed of in a safe way
S36	Wear suitable protective clothing
S37	Wear suitable gloves
S40	To clean the floor and all objects contaminated by this material, use water and detergent
S46	If swallowed, seek medical advice immediately and show this container or label
S53	Avoid exposure – obtain special instructions before use
S56	Dispose of this material and its container at hazardous or special waste collection point

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

NFPA 704 diamond (US):



Blue = Health, Red = Fire, Yellow = Reactivity, White = Special (Oxidizer or water reactive substances)

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average

PC—STEL: Permissible Concentration-Short Term Exposure Limit

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

IDLH: Immediately Dangerous to Life or Health Concentrations

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