Envirofloc

			OECD 401	applicable.	
	LD50 Dermal	Rat	> 5,000 mg/kg OECD 402	Not applicable.	IUCLID 5
Water		•			

Conclusion/Summary : Harmful if swallowed.

Irritation/Corrosion

Product / ingredient name	Result	Species	Score	Exposure	Observation	References
Calcium nitrate	Eyes - Severe irritant OECD 405	Rabbit	Not applic able.	24 - 72 h	Not applicable.	
Ammonium nitrate	Eyes - Irritant OECD 405	Rabbit	Not applic able.		Not applicable.	IUCLID 5

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Eyes : Causes serious eye damage.

Respiratory: No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

Skin: No known significant effects or critical hazards.Respiratory: No known significant effects or critical hazards.

Mutagenicity

Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary: No known significant effects or critical hazards.

Reproductive toxicity

Product / ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Calcium nitrate	Not applicable.	Negative	Negative	Rat	Oral: > 1500 mg/kg bw/day Repeate d dose OECD 422	Not applicable.	IUCLID 5
Ammonium nitrate	Not applicable.	Negative	Negative	Rat	Oral: > 1500	28 days	IUCLID 5

Date of issue : 05/22/2017 Page:8/14

_	•	•	
Ln	\/I F	^tI	loc
	vII	OH	IUL.

			mg/kg bw/day OECD		
			422		

Conclusion/Summary: No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

Information on likely routes of

exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapour or dust that is very irritating or

corrosive to the respiratory system. Exposure to

decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact : No known significant effects or critical hazards.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and

stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : Adverse symptoms may include the following:

stomach pains

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

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Date of issue : 05/22/2017 Page:9/14

Envirofloc

Potential chronic health effects

Product / ingredient name	Result	Species	Dose	Exposure	References
Calcium nitrate	NOAEL Oral	Rat	> 1,000 mg/kg OECD 407	28days	IUCLID 5
Ammonium nitrate	NOAEL Oral	Rat	256 mg/kg OECD 422	28days	IUCLID 5
Ammonium nitrate	No- observable- effect- concentration Dusts and mists Inhalation	Rat	> 185 mg/kg OECD 412	2weeks 5 hours per day	IUCLID 5

Conclusion/Summary: No known significant effects or critical hazards.

General:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.Fertility effects:No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : Adverse symptoms may include the following:

stomach pains

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	660.3 mg/kg

Section 12. Ecological information

Toxicity

Product / ingredient name	Result	Species	Exposure	References
Calcium nitrate				

Date of issue : 05/22/2017 Page:10/14

_	•	•	
	M\/IP	^tI	$\boldsymbol{\alpha}$
	nvir	UII	UL

	Acute LC50 1,378 mg/l Fresh water OECD 203	Fish	96 h	IUCLID 5
	Acute LC50 2,400 mg/l Fresh water	Bluegill	4 d	Proc. Acad. Nat. Sci. Philadelphia106: 185-205
	Acute LC50 490 mg/l Fresh water	Daphnia	48 h	IUCLID 5
	Acute EC50 > 1,700 mg/l Salt water	Algae	10 d	IUCLID 5
Ammonium nitrate				
	Acute LC50 447 mg/l Fresh water	Fish	48 h	IUCLID 5
	Acute EC50 490 mg/l Fresh water	Daphnia	48 h	IUCLID 5
	Acute EC50 1,700 mg/l Salt water	Algae	10 d	IUCLID 5

Conclusion/Summary: No known significant effects or critical hazards.

Persistence and degradability

Conclusion/Summary: No known significant effects or critical hazards.

Bioaccumulative potential

Product / ingredient	LogPow	BCF	Potential
name			
Water	-1.38	Not applicable.	low

Conclusion/Summary : No known significant effects or critical hazards.

Mobility in soil

Soil/water partition coefficient (KOC)

: Not available.

Mobility

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when

Date of issue : 05/22/2017 Page:11/14

recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulation: UN Class		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name	Not applicable.	
14.3 Transport hazard class(es)	Not applicable.	
14.4 Packing group	Not applicable.	
14.5 Environmental hazards	No.	
Additional information		
Environmental hazards	: No.	

Regulation: IMDG		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name	Not applicable.	
14.3 Transport hazard class(es)	Not applicable.	
14.4 Packing group	Not applicable.	
14.5 Environmental hazards	No.	
Additional information		
Marine pollutant	: Not available.	

Regulation: IATA		
Not regulated.		
Not applicable.		
Not applicable.		
Not applicable.		
14.5 Environmental hazards No.		
Additional information Marine pollutant : No.		

Regulation: DOT Classification		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name	Not applicable.	
14.3 Transport hazard class(es)	Not applicable.	

Date of issue : 05/22/2017 Page:12/14

14.4 Packing group Not applicable.	
14.5 Environmental hazards No.	
Additional information	
Marine pollutant	: Not available.

Regulation: TDG Class	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
Not applicable.	
Environmental hazards	: No.
Not applicable.	: No.

14.6 Special precautions for

user

Transport within user's premises: Ensure that persons transporting the product know what to do in the event of

an accident or spillage.

IMSBC

Bulk cargo shipping name

CALCIUM NITRATE FERTILIZER

Class

: Not applicable.

Group

: C

Marpol V

: Non-HME

Transport in bulk according to

Annex II of MARPOL and the

IBC Code

Not applicable.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : The following components are listed: Calcium nitrate

Ammonium nitrate

CEPA Toxic substances : None of the components are listed.

Inventory list

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Korea inventory: All components are listed or exempted.

Canada inventory (DSL and NDSL): All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted. Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

United States inventory (TSCA 8b): All components are listed or exempted. **EC INVENTORY (EINECS/ELINCS):** All components are listed or exempted.

Canada: All components are listed or exempted.

Date of issue : 05/22/2017 Page:13/14

Envirofloc

Section 16. Other information

Key to abbreviations

ADN/ADNR = European Provisions concerning the International Carriage of

Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

bw = Body weight

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOHSC - National Occupational Health and Safety Commission

RID = The Regulations concerning the International Carriage of Dangerous

Goods by Rail

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons

UN = United Nations

Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method

References : EU REACH IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

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Date of issue : 05/22/2017 Page:14/14