

SAFETY DATA SHEET

1. Product and Company Identification

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Product identifier	Phosfloc		
Other means of identification	Not available		
Recommended use	Phosphate remover		
Recommended restrictions	None known.		
Manufacturer	Natural Chemistry L.P. 40 Richards Ave. Norwalk, CT 06854 US Phone: (800) 753-1233 Emergency Phone: CHEMTREC (800) 424-93	300	
	2. Hazards Identificatio	n	
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral	Category 4	
	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 1	
	Specific target organ toxicity, single exposure	Category 3 respiratory tract	irritation
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word			
Signal word Hazard statement	Danger	maga May aquaa raaniratary	irritation
	Causes skin irritation. Causes serious eye dar	hage. May cause respiratory	Initation.
Precautionary statement Prevention	Wash thoroughly after handling. Avoid breathi	na dust. Use only outdoors o	r in a well-ventilated
	area. Wear protective gloves. Wear eye/face p this product.		
Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see this label). Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. If swallowed: Call a poison center/doctor/physician if you feel unwell. Rinse mouth.		
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.		
Disposal	Dispose of contents/container in accordance v	with local/regional/national/int	ernational regulations.
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Not applicable.		
	3. Composition/Information on Ir	ngredients	
Mixture			
Chemical name	Common name and synonyms	CAS number	%
Aluminum sulphate		10043-01-3	100
	4. First Aid Measures		
Inhalation	Remove victim to fresh air and keep at rest in CENTER or doctor/physician if you feel unwel	I.	-
Skin contact	Take off contaminated clothing and wash before	ore reuse. Wash with plenty o	f soap and water.
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Obt		
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Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.		
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.		
	5. Fire Fighting	J Measures	
Suitable extinguishing media	Treat for surrounding material.		
Unsuitable extinguishing media	Do not use water jet. Do not use halogenated extinguis	hing agents or foam.	
Specific hazards arising from the chemical	During fire, gases hazardous to he	ealth may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Fire-fighting equipment/instructions	In the event of fire, cool tanks with	i water spray.	
Specific methods	Cool containers exposed to flame	s with water until well after the f	ïre is out.
General fire hazards	No unusual fire or explosion haza	rds noted.	
Hazardous combustion products	Oxides of sulfur.		
Explosion data			
Sensitivity to mechanical impact	Not available.		
Sensitivity to static discharge	Not available.		
	6. Accidental Rele	ase Measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.		
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.		
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.		
	7. Handling ar	d Storage	
Precautions for safe handling	Observe good industrial hygiene practices. Use care in handling/storage. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment.		
Conditions for safe storage, including any incompatibilities	Store locked up. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).		
	8. Exposure Controls/F	Personal Protection	
Occupational exposure limits			
US. ACGIH Threshold Limit Components	Values Type	Value	Form
Aluminum sulphate (CAS 10043-01-3)	TWA	1 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Components	Chemical Hazards Type	Value	
Aluminum sulphate (CAS	TWA	2 mg/m3	
10043-01-3)		2 mg/m3	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Not applicable.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance	Granules / Powder
Physical state	Solid.
Form	Solid.
Color	White to off-white
Odor	Odorless
Odor threshold	Not available.
рН	2.8 - 3.8 (1% solution)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	240 °F (115.56 °C)
Pour point	Not available.
Specific gravity	1.6
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and Reactivity

Reactivity	None known.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Oxides of sulfur.

11. Toxicological Information

	11. Toxicologica	I Information
Routes of exposure	Eye, Skin contact, Inhalation, Inge	estion.
nformation on likely routes of ex	cposure	
Ingestion	Expected to be a low ingestion hazard.	
Inhalation	Prolonged inhalation may be harmful. May cause irritation to the respiratory system.	
Skin contact	Causes skin irritation.	
Eye contact	Causes serious eye damage.	
Symptoms related to the ohysical, chemical and coxicological characteristics		tearing, redness, swelling, and blurred vision. Permanent eye I result. Skin irritation. May cause redness and pain.
nformation on toxicological effe	cts	
Acute toxicity	Eye irritation Skin irritation May ca	ause respiratory irritation.
Components	Species	Test Results
Aluminum sulphate (CAS 10043-01	-3)	
Acute Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
Oral		
LD50	Guinea pig	490 mg/kg
	Mouse	> 730 mg/kg
	Rat	1930 mg/kg
kin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
erious eye damage/eye ritation	Causes serious eye damage.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
espiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to ca	
Serm cell mutagenicity	mutagenic or genotoxic.	uct or any components present at greater than 0.1% are
I utagenicity	mutagenic or genotoxic.	luct or any components present at greater than 0.1% are
Carcinogenicity	•	be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Not listed.	lated Substances (29 CFR 1910.1	1001-1050)
Reproductive toxicity		ause reproductive or developmental effects.
eratogenicity	Not classified.	
Specific target organ toxicity - single exposure	Respiratory tract irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not classified.	
Chronic effects	Prolonged inhalation may be harn	nful.
Further information	Not available.	

The product is not classified as environmentally hazardous. However, this does not exclude the Ecotoxicity possibility that large or frequent spills can have a harmful or damaging effect on the environment. See below **Test Results** Components Species Aluminum sulphate (CAS 10043-01-3) Aquatic **EC50** Crustacea Amphipod (Crangonyx pseudogracilis) 11.8 - 14 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 3.4 - 5.6 mg/l, 96 hours No data is available on the degradability of this product. Persistence and degradability No data available. **Bioaccumulative potential** Mobility in soil No data available. Mobility in general Not available No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects potential, endocrine disruption, global warming potential) are expected from this component. 13. Disposal Considerations Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material **Disposal instructions** and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Local disposal regulations Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code disposal company. Waste from residues / unused Dispose of in accordance with local regulations. Empty containers or liners may retain some products product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied

12. Ecological Information

14. Transport Information

U.S. Department of Transportation (DOT) Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
WHMIS status	Controlled
WHMIS classification	Class D - Division 2B
WHMIS labeling	



US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Aluminum sulphate (CAS 10043-01-3)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazardous substance	No		
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
	n 112 Hazardous Air Pollutants	s (HAPs) List	
Not regulated.	n 112(r) Accidental Release Pr	avantion (40 CEP 68 130)	
Not regulated.	II IIZ(I) ACCIDENTAL RELEASE PI	evention (40 CFR 66.130)	
Safe Drinking Water Act (SDWA)	Not regulated.		
		ential Chemicals (21 CFR 1310.02(b) and 1310	0.04(f)(2) and
Not listed. Drug Enforcement Adı	ninistration (DEA). List 1 & 2 E	xempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.			
•	Mixtures Code Number		
Not regulated.			
Food and Drug Administration (FDA)	Not regulated.		
US state regulations		er and Toxic Enforcement Act of 1986 (Proposition hemicals currently listed as carcinogens or repro	
	ous Substances (Director's): L		
Not listed.	ition 65 - Carcinogens & Repro	Listed. oductive Toxicity (CRT): Listed substance	
	Safety Act: Listed substance		
-	eporting: Listed substance	Listed.	
Aluminum sulphate US - Minnesota Haz Su	ibs: Listed substance	Listed.	
Aluminum sulphate US - New Jersey RTK ·	(CAS 10043-01-3) • Substances: Listed substance	Listed. e	
Aluminum sulphate US - New York Release	(CAS 10043-01-3) Reporting: Hazardous Substa	Listed. ances: Listed substance	
Aluminum sulphate US. Massachusetts RT	. ,	Listed.	
Aluminum sulphate US. Pennsylvania RTK	(CAS 10043-01-3) - Hazardous Substances	Listed.	
Aluminum sulphate US. Rhode Island RTK		Listed.	
Aluminum sulphate	(CAS 10043-01-3)	Listed.	
Inventory status			
Country(s) or region	Inventory name	Or	n inventory (yes/no)*
Canada	Domestic Substances List (DS		Yes
Canada	Non-Domestic Substances Lis	st (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act	t (TSCA) Inventory	Yes
*A "Yes" indicates that all comp		e inventory requirements administered by the governin	ng country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Disclaimer

Issue date

Effective date

Further information

Other information

Expiry date

Prepared by

HEALTH / 2	
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PHYSICAL HAZARD 0	
PERSONAL X	

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. 05-June-2014 01-June-2017 For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

 This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS). This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

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