

APPENDIX F

Noxfish Fish Toxicant II SDS Sheet

Vectocarb 30-OM SDS Sheet

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Noxfish Fish Toxicant II
 Synonyms : PMRA # 33247; RF2232 LIQUID FT

1.2. Recommended use and restrictions on use

Recommended use : Piscicides.
 Restrictions on use : Keep out of reach of children. Avoid inhalation of vapors or fumes. Use in well ventilated area. Avoid all contact with skin, eyes, or clothing.

1.3. Supplier

Wellmark International, dba Central Life Sciences
 1501 East Woodfield Road, Suite 200 West
 Schaumburg, IL 60173
 www.zoecon.com

1.4. Emergency telephone number

Emergency number : 1-800-248-7763
 1-800-424-9300 - CHEMTREC
 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral) Category 3	Toxic if swallowed
Acute toxicity (inhalation) Category 2	Fatal if inhaled
Serious eye damage/eye irritation Category 2B	Causes eye irritation
Carcinogenicity Category 2	Suspected of causing cancer
Specific target organ toxicity (single exposure) Category 3	May cause drowsiness or dizziness
Specific target organ toxicity (single exposure) Category 3	May cause respiratory irritation
Aspiration hazard Category 1	May be fatal if swallowed and enters airways

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :


 GHS06


 GHS07


 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Toxic if swallowed
 May be fatal if swallowed and enters airways
 Causes eye irritation
 Fatal if inhaled
 May cause respiratory irritation
 May cause drowsiness or dizziness
 Suspected of causing cancer

Precautionary statements (GHS-US) : Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash hands, forearms and face thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Immediately call a poison center or doctor.
 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.

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If exposed or concerned: Get medical advice/attention.
Immediately call a poison center or doctor.
Rinse mouth.
Do NOT induce vomiting.
If eye irritation persists: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
In case of inadequate ventilation wear respiratory protection.
Store locked up.
Dispose of contents/container to in accordance with local/regional/national/international regulations.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : This product is extremely toxic to fish and other aquatic organisms. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Rotenone	(CAS-No.) 83-79-4	5
Cube Resins other than rotenone	(CAS-No.) N/A	5
Benzyl alcohol	(CAS-No.) 100-51-6	20
Propylene Glycol	(CAS-No.) 57-55-6	10
Solvent naphtha	(CAS-No.) 64742-94-5	52.79
Naphthalene	(CAS-No.) 91-20-3	0.53
Other ingredients	(CAS-No.) N/A	Balance

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Call a physician immediately. Do not induce vomiting. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after inhalation : Fatal if inhaled. Causes dizziness or drowsiness if inhaled at non-lethal doses. Causes respiratory irritation if inhaled at non-lethal doses.
Symptoms/effects after eye contact : Mild eye irritation.
Symptoms/effects after ingestion : Toxic if swallowed. Risk of lung edema.
Chronic symptoms : May cause cancer.

4.3. Immediate medical attention and special treatment, if necessary

Contains petroleum distillate vomiting may cause aspiration pneumonia. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

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5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Do not allow fire fighting water to escape into waterways or sewers. LARGE FIRES: Move containers from fire area if you can do it without risk. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray. Keep unauthorized personnel away.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Do not breathe dust/fume/gas/mist/vapors/spray. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
- Emergency procedures : As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Do NOT wash away into sewer. Avoid release to the environment. Evacuate unnecessary personnel. Stay upwind. Stop leak if safe to do so. Wear appropriate personal protective equipment, avoid direct contact.

6.2. Environmental precautions

Avoid release to the environment. Do not allow runoff into water, storm drains or drainage ditches.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Do not flush to sewer or allow to enter waterways. Wear appropriate personal protective equipment, avoid direct contact. Notify authorities if product enters sewers or public waters.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Do not store near heat or open flame. Keep from freezing. Keep only in original container. Protect from sunlight. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.
- Incompatible materials : Strong acids. Strong oxidizers. Heat, sparks, open flame.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Rotenone (83-79-4)		
ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (commercial)
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
IDLH	US IDLH (mg/m ³)	2500 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³
Benzyl alcohol (100-51-6)		
AIHA	WEEL TWA (ppm)	10 ppm
Propylene Glycol (57-55-6)		
AIHA	WEEL TWA (mg/m ³)	10 mg/m ³
Naphthalene (91-20-3)		
ACGIH	ACGIH TWA (ppm)	10 ppm

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Naphthalene (91-20-3)		
ACGIH	Remark (ACGIH)	Hematologic eff; URT & eye irr; Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
OSHA	OSHA PEL (TWA) (mg/m ³)	50 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
IDLH	US IDLH (ppm)	250 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	50 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
NIOSH	NIOSH REL (STEL) (mg/m ³)	75 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm

8.2. Appropriate engineering controls

- Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear chemical resistant gloves made out of barrier laminate, nitrile rubber < or equal to 14 mils, neoprene rubber < or equal to 14 mils or Viton < or equal to 14 mils

Eye protection:

Wear chemical splash safety goggles. Safety glasses

Skin and body protection:

Coveralls, over long-sleeved shirt and long pants

Respiratory protection:

Mixers loaders, applicators and other handlers (except pilots): wear a NIOSH approved particulate respirator with any N, R or P filter with NIOSH approval prefix TC-84A or NIOSH approved powered air purifying respirator with HE filter with NIOSH approval prefix TC-21C. Wear respiratory protection. In case of insufficient ventilation, use NIOSH approved respiratory protection.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear amber liquid
- Color : Amber
- Odor : Strong, unpleasant, petroleum gas-like
- Odor threshold : No data available
- pH : 6.87 @ 23.4°C
- Melting point : Not applicable
- Freezing point : No data available
- Boiling point : No data available

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Flash point	: 112°C (233.6°F)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.0336 g/ml @ 20°C
Solubility	: Insoluble
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: <20 cPs @ 25°C
Explosion limits	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat, sparks, open flame. Excess heat. Protect from sunlight. Do not freeze.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Noxfish Fish Toxicant II	
pH	6.87 @ 23.4°C
Rotenone (83-79-4)	
LD50 oral rat	39.5 mg/kg female, LD50 102 mg/kg male
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	0.0212 mg/l/4h
Benzyl alcohol (100-51-6)	
LD50 oral rat	1620 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 4.2 mg/l/4h
Solvent naphtha (64742-94-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 4.778 mg/l/4h
Naphthalene (91-20-3)	
LD50 oral rat	490 - 2600 mg/kg
LD50 dermal	> 2000 mg/kg
IARC group	2B - Possibly carcinogenic to humans

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Naphthalene (91-20-3)	
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list?	Yes

GHS-US Properties	Classification
Acute toxicity	Oral: Toxic if swallowed. Inhalation: Fatal if inhaled.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	Not classified
Germ cells mutagen	Not classified
Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity	Not classified
Specific target organ toxicant (single exposure)	May cause drowsiness or dizziness. May cause respiratory irritation.
Specific target organ toxicant (repeated exposure)	Not classified
Aspiration hazard	May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Rotenone (83-79-4)	
LC50 Acute fish 1	0.00194 mg/l (Exposure time: 96h - Rainbow trout)
EC50 Daphnia 1	0.0037 mg/l (Exposure time: 96h - Daphnia magna)
NOEC Chronic fish 1	0.00101 mg/l (Rainbow trout)
NOEC Chronic crustacea 1	0.00125 mg/l (Daphnia magna)

Benzyl alcohol (100-51-6)	
LC50 Acute fish 1	460 mg/l (Exposure time: 96h - Fathead minnow)
LC50 Acute fish 2	> 100 mg/l (Exposure time: 96h - Japanese kilifish)
LC50 Acute crustacea 1	230 mg/l (Exposure time: 48h - Daphnia magna)

12.2. Persistence and degradability

Rotenone (83-79-4)	
Persistence and degradability	Rotenone is not persistent in the environment and its low vapor pressure (6.9×10^{-10} torr) and Henry's Law constant (1.1×10^{-13} atm-m ³ mol ⁻¹) limit its volatility. If released to water, rotenone generally degrades quickly through abiotic (hydrolytic and photolytic) mechanisms.

12.3. Bioaccumulative potential

Rotenone (83-79-4)	
Log Pow	4.1
Bioaccumulative potential	Rotenone has a relatively low potential for bioconcentrating in aquatic organisms.

12.4. Mobility in soil

Rotenone (83-79-4)	
Mobility in soil	Rotenone is mobile to moderately mobile in soil and sediment with a half-life of a few days to several weeks or longer depending on water temperature

12.5. Other adverse effects

Noxfish Fish Toxicant II	
Ecological Fate	This product is extremely toxic to fish and other aquatic organisms.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	RQ: Naphthalene 100 lbs. Marine pollutant
IMDG	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Marine pollutant
IATA	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Acute aquatic toxicity

Other Information : The calculated 1-hour acute toxicity for inhalation LC50 = 1.588 mg/L

SECTION 15: Regulatory information

15.1. US Federal regulations

Benzyl alcohol (100-51-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Propylene Glycol (57-55-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Solvent naphtha (64742-94-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Naphthalene (91-20-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	100 lb
SARA Section 313 - Emission Reporting	0.1 %

PMRA Labelling

PMRA Registration Number PMRA # 33247

PMRA INFORMATION: This chemical is a pesticide registered by the Pest Management Regulatory Agency and is subject to certain labeling requirements under the Pest Control Products Act.

PMRA Pictogram



PMRA Signal word

Danger

PMRA Precautionary Statement

KEEP OUT OF REACH OF CHILDREN.

PMRA Hazards to Humans and Domestic Animals

TOXICOLOGICAL INFORMATION:
Contains petroleum distillate - vomiting may cause aspiration pneumonia. Treat symptomatically. KEEP OUT OF REACH OF CHILDREN. Fatal or poisonous if swallowed. May be harmful if absorbed through skin. Fatal if inhaled. Causes eye and skin irritation. DO NOT inhale sprays or vapours. Do not get in eyes, on skin or on clothing. In case of contact, wash immediately with soap and water. Wash all contaminated clothing with soap and hot water before reuse. Avoid contamination of feed and foodstuffs. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not allow recreational access (e.g., wading, swimming, boating and fishing) to treated areas while rotenone is being applied. Do not allow swimming or wading in treated water for 72 hours after last application. Wear chemical-resistant coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks and chemical-resistant footwear, goggles or face shield, and either a respirator with a NIOSH-organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH-approved canister approved for pesticides during mixing, loading, application, clean-up and repair.

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PRMA First Aid	FIRST AID: IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice. IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice. IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. Take container, label or product name and PCP Registration Number with you when seeking medical attention.
PMRA Environmental Hazards	Toxic to aquatic organisms.

15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 14 November 2018

SDS US (GHS HazCom 2012) - CGP

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.



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Vectocarb 30 - OM

PRODUCTION SITE: OMEY, France (certified ISO 9001)

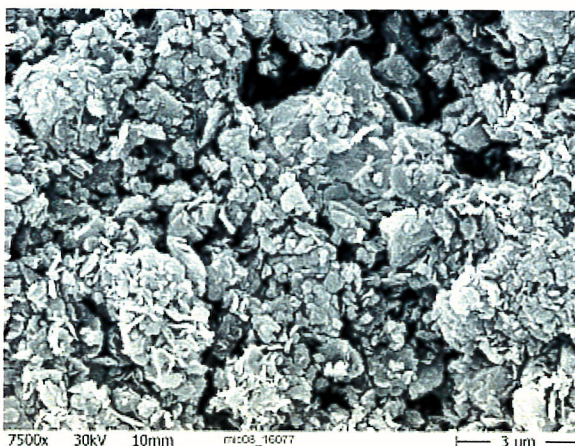
SHORT DESCRIPTION OF THE PRODUCT: Vectocarb 30 - OM is a highly functional additive based on a modified natural calcium carbonate. The modification of the particle structure with hydroxyapatite provides excellent porosity and sedimentation behaviour in aquatic systems.

CHEMICAL ANALYSIS: Hydroxyapatite modified carbonate 99.5 %
 HCl insoluble content 0.5 %

SPECIFIC PRODUCT DATA: Fineness:
 · Top cut (d98%) 9 µm
 · Median particle size (d50%) 2.4 µm
 · Specific surface area BET (ISO 9277) 27 m²/g
 Optical properties:
 · Moisture ex works (ISO 787/2) 1 %

GENERAL PRODUCT DATA: Raw material density (ISO 787/10) 2.7 g/ml
 Loose bulk density (Omya LTM 001) 0.2 g/ml
 pH value (ISO 787/9) 9

MAIN APPLICATIONS:
 Environment
 - Aquatic pest control



STANDARD PACKAGING:
 - BAG (paper) of 12.5 kg on pallet

The information contained in this Technical Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information provided herein is based on technical data that Omya believes to be reliable, however Omya makes no representation or warranty as to the completeness or accuracy thereof and Omya assumes no liability resulting from its use or for any claims, losses, or damages of any third party. Recipients receiving this information must exercise their own judgement as to the appropriateness of its use, and it is the user's responsibility to assess the material's suitability (including safety) for a particular purpose prior to such use.

edition : 15.08.2016
 Product Information :
 S08.03.01_EN_CORPFROM
 101300_04_E
 version : 1



Vectocarb 30 - OM

Production site	OMEY , France (certified ISO 9001)	
Chemical composition	CaCO ₃ MgCO ₃ HCl insoluble content	≥ 97.5 % ≤ 2 % ≤ 0.5 %
Sieve residue > 45 µm	(ISO 787-7)	≤ 0.02 %
Specific surface are BET	(ISO 9277)	24 - 30 m ² /g
Moisture ex works	(ISO 787-2)	≤ 2 %

SAFETY DATA SHEET

according to Commission Regulation (EU) No 830/2015



0130004 VECTOCARB 30-OM

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	18.08.2016	0130004	Date of first issue: 18.08.2016

(CLP_NO)

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

1.1 Product identifier

Trade name : VECTOCARB 30-OM

REACH Registration Number : Mixture

Substance name : Calcium carbonate (MCC) fine powder

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

Use of the Substance/Mixture : Functional additive for use in aquatic environment.

Recommended restrictions on use : For industrial use only.
Other industries not mentioned are excluded.

1.3 Details of the supplier of the safety data sheet

Company : Omya International AG
Baslerstrasse 42
4665 Oftringen

Telephone : +41627892929

Telefax : +41627892077

E-mail address of person responsible for the SDS : sdb.ch@omya.com

Responsible/issuing person : Omya International Ltd, Group Regulatory Affairs, 4665 Oftringen, Switzerland

1.4 Emergency telephone number

Responsible Department : Emergency telephone: +47 22 59 13 00, Department for Poisons Information, Norwegian Directorate of Health, St. Olavs plass, Oslo

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

SAFETY DATA SHEET

according to Commission Regulation (EU) No 830/2015



0130004 VECTOCARB 30-OM

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(CLP_NO) Date of first issue: 18.08.2016

Additional Labelling:

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
WEL substance :			
Natural Calcium Carbonate.	1317-65-3 215-279-6		>= 50 - < 85
magnesium carbonate	546-93-0 208-915-9 Exempted Annex V		< 2

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

None known.



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1.0	18.08.2016	0130004	Date of first issue: 18.08.2016

(CLP_NO)

4.3 Indication of any immediate medical attention and special treatment needed
no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up and shovel.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Not applicable

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
No special handling advice required.

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : General industrial hygiene practice.

SAFETY DATA SHEET

according to Commission Regulation (EU) No 830/2015



0130004 VECTOCARB 30-OM

Version 1.0 Revision Date: 18.08.2016 SDS Number: 0130004 Date of last issue: -
Date of first issue: 18.08.2016
(CLP_NO)

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage : Do not store near acids.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Natural Calcium Carbonate.	1317-65-3	NGV (Respirable dust)	5 mg/m ³	FOR-2011-12-06-1358
		NGV (Total dust)	10 mg/m ³	FOR-2011-12-06-1358

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Skin and body protection : Protective suit

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Half mask with a particle filter P2 (EN 143)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Spray dried powder

Colour : white

Odour : characteristic

pH : 8,5 - 9,5
Concentration: 100 g/l (20 °C)
Method: DIN-ISO 787/9

SAFETY DATA SHEET

according to Commission Regulation (EU) No 830/2015



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Melting point/range	:	> 800 °C (1.013 hPa) Decomposition: Decomposes below the melting point.
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	does not flash
Flammability (solid, gas)	:	The product is not flammable.
Lower explosion limit	:	Not applicable
Vapour pressure	:	Not applicable
Density	:	2,6 - 2,9 g/cm ³ (20 °C, 1.013 hPa) Method: DIN-ISO 787/10
Solubility(ies)	:	
Water solubility	:	0,014 g/l (20 °C, 1.013 hPa) 0,018 g/l (75 °C, 1.013 hPa)
Partition coefficient: n-octanol/water	:	Not applicable
Decomposition temperature	:	> 600 °C
Explosive properties	:	Explosive Acc. EU Legislation: Not explosive Explosive Acc. Transp. Regul.: Not explosive

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.

Reacts with acids. It forms carbon dioxide (CO₂). This displaces the oxygen in the air in closed spaces. (danger of suffocation).

10.4 Conditions to avoid

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Conditions to avoid : no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Components:

Natural Calcium Carbonate.:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

magnesium carbonate:

Acute oral toxicity : Acute toxicity estimate (Rat): > 5.000 mg/kg

Skin corrosion/irritation

Product:

According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:

no data available

STOT - single exposure

Components:

magnesium carbonate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single



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exposure.

STOT - repeated exposure

Components:

magnesium carbonate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Further information

Product:

no data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Components:

Natural Calcium Carbonate.:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 10.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 200 mg/l
Exposure time: 72 h

12.2 Persistence and degradability

Product:

Biodegradability : Not applicable

12.3 Bioaccumulative potential

Components:

Natural Calcium Carbonate.:



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Partition coefficient: n-octanol/water : Not applicable

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Natural Calcium Carbonate.:

Assessment : Non-classified PBT substance
Non-classified vPvB substance

magnesium carbonate:

Assessment : Non-classified PBT substance
Non-classified vPvB substance

12.6 Other adverse effects

Product:

Additional ecological information : In solid state these minerals are a major part of the rocks of the earth's surface.
They are dissolved in a natural state and indispensable part of the natural waters.
These minerals are not biodegradable.
Negative effects on the environment should therefore be excluded.
Restrictions may indicate that concentrated suspensions with these minerals in natural waters may have an unfavorable effect on water organisms (disturbance of the micro flora and - fauna in the sediment and subsequent detriment to the existence of higher water organisms).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.

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Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances
Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

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15.2 Chemical safety assessment

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Sources of key data used to compile the Safety Data Sheet : Information taken from reference works and the literature.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the

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specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.