DOEFLEX-VITAPOL SAFETY DATA SHEET

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY.

1.1	Product Name	Vitapol Grade Ref: RE746 C Powder PVCu Compound
1.2	Address/Tel/Fax No's	Safety, Health & Environmental Manager, Doeflex-Vitapol, Unit 64, Boswell Way, Stakehill Industrial Estate, Middleton, Manchester, M24 2FL United Kingdom Tel : 01793 442 442 Fax: 0161 655 3735
1.3	Emergency Address/Tel No.	As Above

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

Preparation containing calcium zinc salts.

Ingredient	Index No.	W/W%	Symbol	R.Phrase
Calcium Hydroxide	215-137-3	>=0.5 %	Xi	R41
Bis(pentan-2,4-dionato)-calcium	243-001-3	<0.6%	Xn	R22, R41, R43
Aluminium magnesium zinc carbonate hydroxide	423-570-6	<0.6%		R52/53
Octadecyl 3-(3,5-di- tert-butyl-4-hydroxyphenyl) propionate	218-216-0	<0.25%		R53

3.0 HAZARDS

Whilst this compound contains hazardous ingredients, they are safely bound up in the solid phase and are not freely available. Harmful effects are therefore unlikely in the condition of normal use. Incorrect processing may lead to thermal decomposition, which will evolve both toxic and corrosive gases.

4.0 FIRST AID MEASURES

4.1 Inhalation
- If thermal decomposition gases have been inhaled, obtain immediate medical attention.
- Remove patient from exposure, keep warm and rest.
- Administer oxygen if necessary.
- Apply artificial respiration if breathing has stopped or shows signs of failing.

4.2 Skin Contact
- Molten material can cause severe burns.
- Do not attempt to peel molten polymer from the skin.
- Cool the affected part with clean cold water.
- Obtain immediate medical attention.

4.3 Eye Contact
- Irrigate with eyewash solution and clean water holding the eyelids apart.
- Obtain medical attention.

4.4 Ingestion
- Do not induce vomiting.
- Wash out mouth with water and give 200-300 mls of water to drink.
- Obtain medical attention if ill effects occur.

4.5 Further Medical Treatment
- Fully inform doctor or hospital of the nature of the product being handled.

5.0 FIRE FIGHTING MEASURES

- Remove uninvolved personnel from the vicinity
- Call the fire brigade
- Use any of the recommended available fire extinguishers (check for special circumstances, e.g. live electrical equipment that may restrict choice of extinguishers)
- For major fire situations, advice Fire Officer to wear acid resistant protective clothing, full face masks and breathing equipment.
- Combustion or thermal decomposition will evolve toxic and corrosive gases.

6.0 ACCIDENTAL RELEASE MEASURES

- Collect by vacuuming or sweeping. Transfer to a suitable receptacle for disposal or reclamation.

7.0 HANDLING AND STORAGE

7.1 Handling
- Solid granules can present a slip hazard if slipped.
- Levels in the atmosphere should be controlled in compliance with occupational exposure limits.
- Employ good housekeeping practices, especially in the vicinity of electrical equipment and switchgear.
- Observe good industrial hygiene practice.

7.2 Process Hazards
- Avoid inhalation of vapours during high temperature processing or if decomposition has occurred

- Provide adequate ventilation in the process area.
- Do not eat, drink or smoke whilst using.
- Over high processing temperatures may cause thermal decomposition.

7.3 Storage

- Keep packaging closed, if possible, in a cool, adequately ventilated area.
- Keep away from sources of ignition or combustion
- Keep away from food, drink and animal foodstuffs.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Personal Protection

- Provide adequate ventilation at all times to keep vapour levels below published OES levels.
- Observe good industrial hygiene practice.
- Provide suitable protective clothing and ensure use where appropriate. e.g. protective gloves, safety goggles, overalls etc.

8.2 Decomposition Products

- OES Hydrogen Chloride - STEL 5ppm, (15 mins TWA)
- OES Carbon Monoxide - STEL 300ppm, (15 mins TWA)

OES = Occupational Exposure Standard
STEL = Short Term Exposure Limit
TWA = Time Weighted Average

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Form - Granular solid.

9.2 Odour - Slight, characteristic of PVCu.

9.3 Density - See product data sheet.

9.4 Decomposition Temperature - Decomposition is dependent on both time and temperature but will occur with increasing rapidity above 150'C.

9.5 Solubility (water) - Insoluble.

10.0 STABILITY AND REACTIVITY

10.1 General Information - If stored and handled in accordance with standard good practice, there are unlikely to be any harmful effects.

10.2 Hazardous Decomposition Products - Thermal decomposition will evolve toxic and corrosive gases of Hydrogen Chloride and Carbon Monoxide. Other organic decomposition products will also be evolved but will not normally present an additional hazard.

10.3 Reactivity - PVC compounds are relatively inert but contact with strong oxidising agents and concentrated acids above 60'C should be avoided. Avoid contact with Acetal Resin.

11.0 TOXICOLOGICAL INFORMATION

11.1 Skin Contact - PVC compounds are unlikely to cause skin irritation.

11.2 Eye Contact - PVC compounds are unlikely to cause eye irritation.

11.3 Other - However in this product calcium zinc salts are not freely available from the solid phase.

12.0 ECOLOGICAL INFORMATION

PVC compositions in the fully gelled form are considered to be ecologically benign. They are not readily decomposed by weathering or by micro organisms.

13.0 DISPOSAL CONSIDERATIONS

If possible recycle. Otherwise disposal should be in accordance with local, state or national legislation. Disposal by burial in an authorised landfill site or by incineration under approved controlled conditions is acceptable. Combustion will evolve toxic gases.

14.0 TRANSPORT INFORMATION

Not classified as hazardous for Transport.

15.0 REGULATORY INFORMATION

This preparation is classified under CHIP 96 regulations. (Chemical Hazard Information and Packaging)

This PVC preparation does not normally present a danger to human health by inhalation, ingestion or skin contact, in the form in which it is supplied. Such preparations do not require a label under regulation 9 of CHIP 96.

For reference purposes only this preparation is classified as:

Risk Phrases:

R22	Harmful by inhalation and if swallowed
R41	Risk of serious damage to eyes
R43	May cause skin sensitisation by skin contact
R52	Harmful to aquatic organisms
R53	May cause long-term adverse effects in the aquatic environment

Safety Phrases:

S24	Avoid contact with skin
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection

16.0 OTHER INFORMATION

This data sheet was prepared in accordance with Directive 91/155/EEC

This safety sheet has been prepared by Doeflex-Vitapol on the basis of its best knowledge and on information available at the date of issue. It does not constitute a specification. Doeflex-Vitapol gives no guarantee and disclaims responsibility for individual items being incomplete or erroneous.
Doeflex-Vitapol gives no guarantee that every possible safety measure is contained herein, nor gives any guarantee that additional safety precautions may not be required under specific or exceptional circumstances. It is the responsibility of the user to observe all local or national safety regulations and in no case can the products Vitapol accept any responsibility for failure to observe such regulations. Freedom from patent rights must not be assumed.

DOEFLEX-VITAPOL
SAFETY DATA SHEET

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY.

1.1	Product Name	Vitapol Grade Ref: CXN 69 Granular PVCp Compound
1.2	Address/Tel/Fax No's	Safety, Health & Environmental Manager Doeflex-Vitapol, Unit 64, Boswell Way, Stakehill Industrial Estate, Middleton, Manchester, M24 2FL United Kingdom Tel: 01793 442 442 Fax: 0161 655 3735
1.3	Emergency Address/Tel No.	As Above

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

Calcium Zinc Stabilised

Ingredient	CAS No.	W/W%	Symbol	R.Phrase
Di-2-Ethyl Hexyl Phthalate	117-81-7	<30%	-	R62, R63
Calcium Zinc stabilizer Phenol		>0.02%	T	R24/25, R34

3.0 HAZARDS

Whilst this compound contains hazardous ingredients, they are safely bound up in the solid phase and are not freely available. Harmful effects are therefore unlikely in the condition of normal use. Incorrect processing may lead to thermal decomposition, which will evolve both toxic and corrosive gases.

4.0 FIRST AID MEASURES

4.1 Inhalation
- If thermal decomposition gases have been inhaled, obtain immediate medical attention.
- Remove patient from exposure, keep warm and rest.
- Administer oxygen if necessary.
- Apply artificial respiration if breathing has stopped or shows signs of failing.

4.2 Skin Contact
- Molten material can cause severe burns.
- Do not attempt to peel molten polymer from the skin.
- Cool the affected part with clean cold water.
- Obtain immediate medical attention.

4.3 Eye Contact
- Irrigate with eyewash solution and clean water holding the eyelids apart.
- Obtain medical attention.

4.4 Ingestion
- Do not induce vomiting.
- Wash out mouth with water and give 200-300 mls of water to drink.
- Obtain medical attention if ill effects occur.

4.5 Further Medical Treatment
- Fully inform doctor or hospital of the nature of the product being handled.

5.0 FIRE FIGHTING MEASURES

- Remove uninvolved personnel from the vicinity
- Call the fire brigade
- Use any of the recommended available fire extinguishers (check for special circumstances, e.g. live electrical equipment that may restrict choice of extinguishers)
- For major fire situations, advice Fire Officer to wear acid resistant protective clothing, full face masks and breathing equipment.
- Combustion or thermal decomposition will evolve toxic and corrosive gases.

6.0 ACCIDENTAL RELEASE MEASURES

- Collect by vacuuming or sweeping. Transfer to a suitable receptacle for disposal or reclamation.

7.0 HANDLING AND STORAGE

7.1 Handling
- Solid granules can present a slip hazard if spilled.
- Levels in the atmosphere should be controlled in compliance with occupational exposure limits.
- Employ good housekeeping practices, especially in the vicinity of electrical equipment and switchgear.
- Observe good industrial hygiene practice.

7.2 Process Hazards
- Avoid inhalation of vapours during high temperature processing or if decomposition has occurred
- Provide adequate ventilation in the process area.
- Do not eat, drink or smoke whilst using.

- Over high processing temperatures may cause thermal decomposition.

7.3 Storage
- Keep packaging closed, if possible, in a cool, adequately ventilated area.
- Keep away from sources of ignition or combustion
- Keep away from food, drink and animal foodstuffs.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Personal Protection
- Provide adequate ventilation at all times to keep vapour levels below published OES levels.
- Observe good industrial hygiene practice.
- Provide suitable protective clothing and ensure use where appropriate. E.g. protective gloves, safety goggles, overalls etc.

8.2 Decomposition Products
- OES Hydrogen Chloride - STEL 5ppm, 7mg/m3 (15 mins TWA)
- OES Carbon Monoxide - STEL 300ppm, 300mg/m3 (15 mins TWA)

OES = Occupational Exposure Standard
STEL = Short Term Exposure Limit
TWA = Time Weighted Average

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Form - Granular solid.

9.2 Odour - Slight, characteristic of PVCp granulate.

9.3 Density - See product data sheet.

9.4 Decomposition Temperature - Decomposition is dependent on both time and temperature but will occur with increasing rapidity above 150'C.

9.5 Solubility (water) - Insoluble.

10.0 STABILITY AND REACTIVITY

10.1 General Information - If stored and handled in accordance with standard good practice, there are unlikely to be any harmful effects.

10.2 Hazardous Decomposition Products - Thermal decomposition will evolve toxic and corrosive gases of Hydrogen Chloride and Carbon Monoxide. Other organic decomposition products will also be evolved but will not normally present an additional hazard.

10.3 Reactivity - PVC compounds are relatively inert but contact with strong oxidising agents and concentrated acids above 60'C should be avoided. Avoid contact with Acetal Resin.

11.0 TOXICOLOGICAL INFORMATION

11.1 Skin Contact - PVC compounds are unlikely to cause skin irritation.

11.2 Eye Contact - PVC compounds are unlikely to cause eye irritation.

11.3 Other - Di-2-Ethyl Hexyl Phthalate (DEHP) has been shown via ingestion studies on rodents to affect male fertility and foetus development. However, in this product DEHP is not freely available from the solid phase. Inhalation studies using DEHP vapour have not shown these effects.

12.0 ECOLOGICAL INFORMATION

PVC compositions in the fully gelled form are considered to be ecologically benign. They are not readily decomposed by weathering or by microorganisms.

13.0 DISPOSAL CONSIDERATIONS

If possible recycle. Otherwise disposal should be in accordance with local, state or national legislation. Disposal by burial in an authorised landfill site or by incineration under approved controlled conditions is acceptable. Combustion will evolve toxic gases.

14.0 TRANSPORT INFORMATION

Not classified as hazardous for Transport.

15.0 REGULATORY INFORMATION

This preparation is classified under CHIP 96 regulations. (Chemical Hazard Information and Packaging)

This PVC preparation does not normally present a danger to human health by inhalation, ingestion or skin contact, in the form in which it is supplied. Such preparations do not require a label under regulation 9 of CHIP 96.

For reference purposes only this preparation is classified as:

Risk Phrases:

R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child

Safety Phrases:

S36/37	Wear suitable protective clothing and gloves.

16.0 OTHER INFORMATION

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