

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name : Vegas
Product form : Mixture
Type of formulation : Emulsion, oil in water (EW)
Active Ingredient : Cyflufenamid
Composition code : NI 022 1103

1.2. Relevant identified uses of the substance or mixture and uses advised against**2.1. Relevant identified uses**

Main use category : Plant protection product for professional use. Agriculture.
Use of the substance/mixture : Fungicide.

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheetSupplier:

Nisso Chemical Europe GmbH
Berliner Allee 42
40212 Düsseldorf, Allemagne
T.: +49(0) 211 130 66 86 0
F.: +49(0) 211 328231
sds@nisso-chem.de

Distributor:

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1 Riverside
Granta Park
Great Abington
Cambridgeshire CB21 6AD
United Kingdom
Tel: +44 (0)845 373 0305
Fax: +44 (0)1223 891210
Email: certis@certiseurope.co.uk
Website: www.certiseurope.co.uk

1.4. Emergency telephone number

Emergency number : Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.
For advice on medical emergencies, fires, spillages or chemical hazards only –phone: 0870 190 6777.
For further advice for medical professionals - The National Poisons Information Service:
Tel: 0870 600 6266 (UK only) or Dublin Tel: 0035 3 137 99 64/379966.
For further advice for veterinary surgeons: 020 7635 9195.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 2 H411

Full text of H-phrases: see section 16.

Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R38

N; R50/53

Full text of R-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

:



GHS09

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P273 - Avoid release to the environment.
 P280 - Wear protective gloves.
 P391 - Collect spillage.
 P501 - Dispose of contents/container to a suitable disposal site in accordance with local and national regulations.

EUH phrases

: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols

:



Xi - Irritant



N - Dangerous for the environment

R-phrases

: R38 - Irritating to skin.
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

: S24 - Avoid contact with skin.
 S37 - Wear suitable gloves.
 S57 - Use appropriate containment to avoid environmental contamination.
 S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients
3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Cyflufenamid	(CAS No) 180409-60-3 (EC no) - (EC index no) -	5,3	N; R51/53
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	(CAS No) - (EC no) 922-153-0 (EC index no) -	18	Xn; R65 N; R51/53 R66
Sorbitane trioleate (Anhydro-D-glucitol trioleate)	(CAS No) 26266-58-0 (EC no) 247-569-3 (EC index no) -	10	Xi; R36/38
Polyoxyethylene oleylether	(CAS No) 9004-98-2 (EC no) 500-016-2 (EC index no) -	10	Xi; R36/38 R50/53
Poly(oxy-1,2-ethanediyl), a-[2,4,6-tris(1-phenylethyl)phenyl]-w-hydroxy-	(CAS No) 99734-09-5	5	R52/53
Polyoxyethylene tristylylphenylether phosphate	(CAS No) 90093-37-1	< 5	Xi; R36
1,2-Benzisothiazole-3-(2H)-one	(CAS No) 2634-33-5 (EC no) 220-120-9 (EC index no) 613-088-00-6	0,2	Xn; N; R22- R38-R41 R43 (1) R50

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cyflufenamid	(CAS No) 180409-60-3 (EC no) - (EC index no) -	5,3	Aquatic Chronic 1, H410
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	(CAS No) - (EC no) 922-153-0 (EC index no) -	18	Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066
Sorbitane trioleate (Anhydro-D-glucitol trioleate)	(CAS No) 26266-58-0 (EC no) 247-569-3 (EC index no) -	10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Polyoxyethylene oleylether (CAS No) 9004-98-2	(CAS No) 9004-98-2 (EC no) 500-016-2 (EC index no) -	10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Poly(oxy-1,2-ethanediy), a-[2,4,6-tris(1-phenylethyl)phenyl]-w-hydroxy-	(CAS No) 99734-09-5	5	Aquatic Chronic 3, H412
Polyoxyethylene tristyllylphenylether phosphate	(CAS No) 90093-37-1	< 5	Eye Irrit. 2, H319
1,2-Benzisothiazole-3-(2H)-one	(CAS No) 2634-33-5 (EC no) 220-120-9 (EC index no) 613-088-00-6	0,2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 (2) Aquatic Acute 1, H400

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : In the event of any complaints or symptoms, avoid further exposure.
- First-aid measures after inhalation : IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist call a doctor.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and shoes.
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. Consult an eye specialist.
- First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray
Dry chemical powder
Alcohol resistant foam
Carbon dioxide (CO₂).
- Unsuitable extinguishing media : Jet of water.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustion or thermal decomposition may generate toxic vapours: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbons.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire.
- Fight fire from safe distance and protected location.
- Do not breathe fumes
- Cool closed containers exposed to fire with water spray
- If possible, take the containers out of dangerous zone.
- Contain fire-fighting water with dikes or absorbents to prevent migration and entry into sewers or streams.
- Protection during firefighting : Wear suitable protective clothing, gloves, eye/face protection and respiratory protection
- Wear a self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

- Protective equipment : Wear suitable protective clothing, gloves and eye or face protection.
- Emergency procedures : Evacuate area.
- Ensure adequate ventilation.
- Avoid direct contact with the substance.
- Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.2. Environmental precautions

- Prevent entry to sewers and public waters.
- Notify the authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.
- Once absorbed collect spilled material with shovels, buckets and place in closed containers and label properly.
- Remove as chemical waste, according to national or local legislation.
- In the event of major spillage: contact an expert.

6.4. Reference to other sections

- Reference to other sections (8, 13).

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

- Precautions for safe handling : Read label before use.
- Avoid contact with eyes, skin, nose and mouth.
- Wear suitable protective clothing, gloves and eye/face protection.
- Opened containers must be carefully closed and kept upright to avoid leakage.

Hygiene measures : Always wash your hands immediately after handling this product, and once again before leaving the workplace.

Contaminated work clothing should not be allowed out of the workplace.

Do not eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide adequate ventilation.

Storage conditions : Prevent unauthorised access.

Keep locked up and out of the reach of children.

Keep in original containers, tightly closed.

Keep away from food, drink and animal feedingstuffs.

Protect against frost.

Keep away from heat and direct sunlight.

7.3. Specific end use(s)

Fungicide for agricultural use. Refer to the label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Protective clothing. Protective goggles. Gloves. Dust/aerosol mask.



Hand protection : Wear impervious gloves resistant to chemical. Gloves material; e.g. outside Rubber, Vinyl chloride resin; inside: cotton, rayon.

Eye protection : Safety goggles or a face shield.

Skin and body protection : Protective clothing with long sleeves waterproof and resistant to chemicals. Rubber boots.

Respiratory protection : Wear appropriate respirator for dust / organic vapors.

Hygiene measures : Do not eat, drink or smoke while handling the product.

Clean gloves with soap and water before removing.

Wash hands and face with soap and water before eating, drinking or smoking.

Clean equipment, premises and work clothes regularly.

Work clothing should remain on the work area and stored separately from street clothes.

Environmental exposure controls : Discharge into the environment must be avoided.

Do not contaminate surface and groundwater.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Off-white to pale yellow.

Odour : Aromatic.

Odour threshold : No data available

pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 103 °C
Flash point	: 112 °C (Cleaveland open cup)
Self ignition temperature	: No data available
Decomposition temperature	: >140 °C (Cyflufenamid)
Flammability (solid, gas)	: No data available
Vapour pressure at 20 °C	: $3,54 \times 10^{-5}$ Pa (Cyflufenamid)
Relative vapour density	: No data available
Relative density	: 1.027 (20°C)
Solubility	: Insoluble.
Partition Coefficient n-Octanol/H ₂ O	: Log Pow = 4.7 (25°C, pH6.75)
Log Kow	: No data available
Viscosity, kinematic	: 3.7×10^{-5} m ² /sec (40°C)
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: No oxidising properties.
Explosive limits	: No data available

9.2. Other information

Surface tension : 31,9 mN/m (25°C)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

Is not explosive and does not exhibit oxidant properties.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Strong oxidizing agents, strong acids or bases.

10.6. Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

CYFLUFENAMID 5% EW	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat	> 4.41 mg/l/4h

Skin Irritation	: Moderate to severe irritation in rabbits.
Eye Irritation	: Very slight irritation in rabbits.
Sensitisation	: Not a skin sensitizer in guinea pigs.
Carcinogenicity	: Not carcinogenic in rats and mice (Cyflufenamid)
Mutagenicity	: Ames test: Negative. (Cyflufenamid) Chromosomal aberration test: Negative. (Cyflufenamid) Cytogenetic test (mouse lymphoma): Negative (Cyflufenamid)
Toxicity for reproduction	: Negative (Cyflufenamid)
Teratogenicity	: Negative in rats and rabbits (Cyflufenamid).
Chronic Toxicity	: <u>Cyflufenamid</u> NOAEL (rat, 2 years) : 4,4 mg/kg/day (male), 5,5 mg/kg/day (female) NOAEL (mice, 1.5 years) : 62,8 mg/kg/day (male), 9,0 mg/kg/jour (female)
Subchronic Toxicity	: <u>Cyflufenamid</u> NOAEL (rat, 90 days, repeated dose) : 20,1 mg/kg/day (male), 24,7 mg/kg/day (female)

SECTION 12: Ecological information

12.1. Toxicity

CYFLUFENAMID 5% EW	
LC50 Fishes (<i>Oncorhynchus mykiss</i>)	9.84 mg/l (96 h)
EC50 Daphnia (<i>Daphnia magna</i>)	9.48 mg/l (48 h)
ErC50 Algae (<i>Selenastrum capricornutum</i>)	1.628 mg/l (72h)
Chronic Toxicity for Algae (NOEC)	0,395 mg/l (72h)

12.2. Persistence and degradability

Cyflufenamid (180409-60-3)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Cyflufenamid (180409-60-3)	
BCF	BCF = 528 at 10 µg/L (Mean of 10 -28 days)
Log Pow	Log Pow = 4,7 (25°C, pH 6.75)

12.4. Mobility in soil

Cyflufénamid	
Log Koc	1003 - 2100

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Apply triple washing procedure of the empty container and place the rinse water in the tank or container where the mixture is prepared. Handle empty containers and waste as established by the competent authorities.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 3082

14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ("Cyflufenamid"/ "Solvent naphtha (petroleum), heavy arom." mixture)

Transport document description : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (E)

14.3. Transport hazard class(es)

Class (UN) : 9

Hazard labels (UN) : 9



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90

Classification code (UN) : M6

Orange plates :



Special provision (ADR) : 274, 335, 601

Transport category (ADR) : 3

Tunnel restriction code : E

Limited quantities (ADR) : 5L

Excepted quantities (ADR) : E1

EAC code : •3Z

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Change date	Previous Version	Section	Changed Item	Change	Comments
04/02/2014	1.1	2	CLP classification and label elements	Added	
			R51/53	Removed.	
			R50/53	Added	
31/10/2014	3.0	3.2, 9.0, 12			Update according to Version 10 of NISSO (05/06/2014)

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Corr. 1B	skin corrosion/irritation Category 1B
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitisation Category 1
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
R22	Harmful if swallowed
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R43	May cause sensibilisation by skin contact.
R50	Very toxic to aquatic organisms



Vegas

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 31/10/2014

Revision date: 31/10/2014

:

Version: 3.1

R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.