

## Safety Data Sheet

section

### 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation : NuPro Aerosol.

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

Relevant identified uses : Insecticide.

Uses advised against : No data available.

#### 1.3 Details of the supplier of the safety data sheet

Supplier : **Name:** Fountain Environmental Services c.c.  
**Street:** 18 Simba Rd, Sebenza  
**Postal code/City:** 1613, Edenvale  
**Country:** South Africa.  
**Telephone:** +27 82 650 8765

#### 1.4 Emergency Telephone Number

ZA: **Emergency Tel:** +27 11 979 4246  
**POISON CENTER:** +27 861 555 777  
(Tygerberg-021-931-6129)

## section 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Hazards identification:

H225	Flam. Liq. 2	Highly flammable liquid and vapour.
H302	Acute Tox. 4 ORAL	Harmful if swallowed
H313	Acute Tox. 5 DERMAL	May be harmful in contact with skin
H317	Skin Sens. 1	May cause an allergic skin reaction.
H319	Eye Irrit. 2	Causes serious eye irritation
H331	Acute Tox. 3 INHALATION	Toxic if inhaled.
H401	Aquatic Acute 2	Toxic to aquatic life

### 2.2 Label elements

#### Labelling

#### Hazard pictograms



#### Signal word

Danger

#### Hazard Statements

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed
H313	May be harmful in contact with skin
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation
H331	Toxic if inhaled.
H401	Toxic to aquatic life

#### Precautionary Statements - Prevention

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
P280	smoking. Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using this product.
P233	Keep container tightly closed.
P241	Use explosion-proof equipment.
P264	Wash hands thoroughly after handling.
P242	Use only non-sparking tools.
P240	Ground and bond container and receiving equipment.
P243	Take precautionary measures against static discharge.
P272	Contaminated work clothing should not be allowed out of the workplace.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

#### Precautionary Statements - Response

P321	Specific treatment (see on this label).
P311	Call a POISON CENTER/doctor
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
P338	do. Continue rinsing. Seek medical attention.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.

P303+P361+ P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use correct/suitable methods to extinguish. See section 5.1.

#### Precautionary Statements - Storage

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### Precautionary Statements - Disposal

P501 Dispose of contents/container in accordance with national regulations.

#### Contains

dichlorvos

## 2.3 Other hazards

Not available

# section 3 Composition/information on ingredients

## 3.2 Mixtures

No data available.

Substance	Concentration (%)	Specific concentration limits	Classification
<b>acetone [1]</b>			
CAS N° 67-64-1	C≤ 20%		H225 Highly flammable liquid and vapour.
EC N° 200-662-2			H319 Causes serious eye irritation
IDX N° 606-001-00-8			H336 May cause drowsiness or dizziness
<b>dichlorvos</b>			
CAS N° 62-73-7	C≤ 15%		H301 Toxic if swallowed.
EC N° 200-547-7			H311 Toxic in contact with skin.
IDX N° 015-019-00-X			H317 May cause an allergic skin reaction.
			H330 Fatal if inhaled.
	H400 Very toxic to aquatic life.		

[1] Substance for which maximum workplace exposure limits are available.

## 3.3 Remark

Full text of H- phrases: see section 16.

# section 4 First aid measures

## 4.1 Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Do not leave affected person unattended.

Remove victim out of the danger area.

Keep affected person warm, still and covered.

Remove the affected person from the danger zone and lay down.

**Following inhalation:**

Remove person to fresh air and keep comfortable for breathing.

If the victim is unconscious but breathing normally, place her in recovery position and seek medical advice.

No resuscitation mouth-to-mouth or mouth-to-nose. Ambu use a mask or respirator.

If breathing is irregular or stopped, administer artificial respiration.

After inhaling vapours the first signs of poisoning can show up hours later, so always consult a doctor.

**Following skin contact:**

Remove contaminated, saturated clothing immediately.

After contact with skin, wash immediately with plenty of water and soap.

Take off immediately all contaminated clothing.

In case of skin reactions, consult a physician.

**Following eye contact:**

In case of eye irritation consult an ophthalmologist.

Rinse immediately carefully and thoroughly with eye-bath or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

**Following ingestion:**

Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

If swallowed: Call a POISON CENTER or physician if you feel unwell.

**Self-protection of the first aider:**

First aider: Pay attention to self-protection!.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed****Notes for the doctor:**

Treat symptomatically.

**section 5 Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media:**

Foam.

Extinguishing powder.

Carbon dioxide (CO<sub>2</sub>).

Sand.

**Unsuitable extinguishing media:**

Strong water jet.

**5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

**5.3 Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**5.4 Additional information**

Do not inhale vapors and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.  
 Move undamaged containers from immediate hazard area if it can be done safely.  
 Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.  
 Use water spray jet to protect personnel and to cool endangered containers.  
 Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## section 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.  
 Remove persons to safety.  
 Provide adequate ventilation.  
 Use appropriate respiratory protection.

### 6.2 Environmental precautions

Ensure that waste is collected and contained.  
 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
 Contain leaks or spills within cabinets with removable trays.

### 6.3 Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.  
 Collect in closed and suitable containers for disposal.  
 Clean contaminated objects and areas thoroughly observing environmental regulations.  
 Ventilate affected area.  
 Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).  
 Wipe up with absorbent material (eg. cloth, fleece).

### 6.4 Reference to other sections

Safe handling: see section 7.  
 Disposal: see section 13.  
 Personal protection equipment: see section 8.

### 6.5 Additional information

None.

## section 7 Handling and Storage

### 7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use.

#### PROTECTIVE MEASURES:

Avoid contact with skin, eyes and clothes.  
 Use only in well-ventilated areas.  
 If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.  
 Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Take precautionary measures against static discharges.  
 Do not eat, drink or smoke when using this product.  
 Provide adequate ventilation as well as local exhaustion at critical locations.  
 Wear personal protective clothing (see section 8).  
 Do not put any product-impregnated cleaning rags into your trouser pockets.  
 Avoid breathing gas/fumes/vapour/spray.

**Advices on general occupational hygiene:**

Wash hands before breaks and after work.  
 Remove contaminated, saturated clothing immediately.  
 Work in well ventilated zones or use proper respiratory protection.  
 Street clothing should be stored separately from work clothing.  
 Wash contaminated clothing before reuse.

**In the immediate working surroundings there must be:**

Provide eye wash bottle and label it's location conspicuously.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, and well-ventilated place.  
 Keep container in upright position in order to prevent leakage.

**Requirements for storage rooms and vessels:**

Ensure adequate ventilation of the storage area.  
 Ground/bond container and receiving equipment.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Store locked up.

**Advice on joint storage:**

Keep away from food, drink and animal feedingstuffs.  
 Keep away from clothing and other combustible materials.  
 Keep only in the original container in a cool, well-ventilated place, away from highly flammable substances.

**Further information on storage conditions:**

Use explosion-proof electrical/ventilating/lighting/.../equipment.  
 Use only non-sparking tools.

## 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

# 8 Exposure controls/personal protection

## 8.1 Control parameters

**Occupational exposure limits:**

Substance	Value	Unit	Type
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No data available

**Biological limit values:**

Not available

**Exposure limits at intended use:**

Not available

**Remark:**

Not available

## 8.2 Exposure controls

## Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations. Have a safety shower/eye wash basin in the immediate work area.

## Personal protection equipment:



Eye/face protection

- : **Suitable eye protection:**  
Wear eye protection equipment.
- : **Recommended eye protection articles:**  
Eye glasses.

Skin protection

- : **Hand protection:**  
**Suitable gloves type:**  
Wear protective gloves.  
**Additional hand protection measures:**  
Use gloves only once.  
**Remark:**  
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.  
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.  
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
Breakthrough times and swelling properties of the material must be taken into consideration.
- : **Body protection:**  
**Suitable protective clothing:**  
Lab coat.

Respiratory protection

- : **Respiratory protection necessary at:**  
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
- : **Suitable respiratory protection apparatus:**  
Wear respiratory protection.
- : **Remark:**  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.  
Observe the wear time limits as specified by the manufacturer.

## Environmental exposure controls:

Not available

## 9 Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	:	Combustible Liquid. Total release atomizer can/aerosol.
Colour	:	Not available
Odour	:	Not available
Odour threshold	:	Not available
pH	:	Not applicable
Melting/Freezing point	:	Not available

Boiling point	: Not available
Evaporation rate	: Not available
Flammability	: Highly flammable liquid and vapour.
Lower limit of flammability or explosive	: Not available
Vapour pressure	: Not available
Vapour density	: Not available
Relative density	: Not available
Water solubility	: Emulsifiable.
Partition coefficient, n-octanol/water (log Pow)	: Not available
Auto-inflammability temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available
Explosive properties	: May form an explosive mixture in an enclosed or poorly ventilated areas.
Oxidising properties	: Not an oxidizer.
Solubility in other Solvents	: Not available
Log Kow	: Not available

## section 10 Stability and Reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

### 10.7 Additional information

Not available

## section 11 Toxicological information

### 11.1 Acute oral toxicity

Mixture:



The product is classified Acute Tox. 4\_ORAL according to the referenced regulation.  
Harmful if swallowed.  
ATE "NuPro Aerosol" = 806.5 mg/kg.

## 11.2 Acute dermal toxicity

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### Mixture:

The product is classified Acute Tox. 5\_DERMAL according to the referenced regulation.  
May be harmful in contact with skin.  
ATE "NuPro Aerosol" = 2419.4 mg/kg.

## 11.3 Acute inhalation toxicity

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### Mixture:

The product is classified Acute Tox. 3\_INHALATION according to the referenced regulation.  
Toxic if inhaled.  
ATE "NuPro Aerosol" = 4.0 mg/l.

## 11.4 Skin corrosion/irritation

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### Mixture:

The product is not classified.

## 11.5 Serious eye damage/irritation

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### Mixture:

The product is classified Eye Irrit. 2 according to the referenced regulation.  
Causes serious eye irritation.

## 11.6 Skin sensitisation

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### Mixture:

The product is classified Skin Sens. 1 according to the referenced regulation.  
May cause an allergic skin reaction.

## 11.7 Specific target organ toxicity (repeated exposure)

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### Mixture:

The product is not classified.

## 11.8 Specific target organ toxicity (single exposure)

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### Mixture:

The product is not classified.

## 11.9 Carcinogenicity

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### Mixture:

The product is not classified.

## 11.10 Reproductive toxicity

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### Mixture:

The product is not classified.

## 11.11 Germ cell mutagenicity

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### Mixture:

The product is not classified.

### 11.12 Sensitisation to the respiratory tract

**Mixture:**

The product is not classified.

### 11.13 Additional information

Not available

## section 12 Ecological information

### 12.1 Toxicity

**Mixture:**

Based on available data, the classification criteria are not met.

### 12.2 Persistence and degradability

**Mixture:**

The product has not been tested.

### 12.3 Bioaccumulative potential

**Mixture:**

The product has not been tested.

### 12.4 Mobility in soil

**Mixture:**

The product has not been tested.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

### 12.7 Additional ecotoxicological information

Not available

## section 13 Disposal considerations

### 13.1 Waste treatment methods

**Product/Packaging disposal:**

**Waste treatment options:**

**Appropriate disposal/Product:**

Waste requiring special supervision.

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

**Appropriate disposal/Package:**

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

Handle contaminated packages in the same way as the substance itself.

Dispose of waste according to applicable legislation.

**Remark:**

For recycling, contact manufacturer.

Collect the waste separately.

Consult the appropriate authorities about waste disposal.

Do not mix with other wastes.

The waste is to be kept separate from other types of waste until its disposal.

Concerning the waste it has to be checked, whether a transport authorisation is required.

## section 14 Transport information

### 14.1 UN number

UN 1954

### 14.2 UN proper shipping name

Compressed gas, flammable, n.o.s.

### 14.3 Transport hazard class(es)

2.1 Compressed gas

### 14.4 Packing group

III

### 14.5 Environmental hazards

Not available

### 14.6 Special precautions for user

Not available

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

Not available

## section 15 Regulatory information

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

This SDS has been established in accordance with GHS regulation..

Substance	CAS	EC
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dichlorvos

62-73-7

200-547-7

## 15.2 Chemical Safety Assessment

Not available

# 16 Other information

## 16.1 Indication of changes

V3.

## 16.2 Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

GHS: Globally Harmonised System of Classification and Labeling of Chemicals.

## 16.3 Key literature references and sources for data

UN GHS Purple Book Revision 9.

## 16.4 The classification of the mixture is in accordance with the evaluation method described in HazCom 2012

The classification of the mixture is in accordance with the evaluation method described in the GHS.

## 16.5 The classification of the mixture is in accordance with the evaluation method described in the GHS

H225	Flam. Liq. 2	Highly flammable liquid and vapour.
H301	Acute Tox. 3 ORAL	Toxic if swallowed.
H302	Acute Tox. 4 ORAL	Harmful if swallowed
H311	Acute Tox. 3 DERMAL	Toxic in contact with skin.
H313	Acute Tox. 5 DERMAL	May be harmful in contact with skin
H317	Skin Sens. 1	May cause an allergic skin reaction.
H319	Eye Irrit. 2	Causes serious eye irritation
H330	Acute Tox. 2 INHALATION	Fatal if inhaled.
H331	Acute Tox. 3 INHALATION	Toxic if inhaled.
H336	STOT SE 3 H336	May cause drowsiness or dizziness
H400	Aquatic Acute 1	Very toxic to aquatic life.
H401	Aquatic Acute 2	Toxic to aquatic life

## 16.6 Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

## 16.7 Additional information

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The information given in this Safety Data Sheet is based on our present knowledge and on the GHS Guidelines Rev 9. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.