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Section 1 Product and Company Identification

> Product Identifier

Product Name	Dichlorvos 77.5% (Solvent: xylene+150#Solvent oil)
Synonyms	-
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Relevant Identified

Please consult manufacturer.

Uses

Uses Advised Against Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet


REGISTRATION HOLDER:	ADAMA South Africa (Pty)Ltd Ground Floor, Simeka House, The Vineyards Office Estate, 99 Jip de Jager Drive, Bellville, 7530 Tel: +27 21 982 1460
Emergency numbers	+27 82 446 8946 + 27 861 555 777

Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the eighth revised edition):

> GHS Hazard Class

Flammable Liquids	Category 2
Acute Toxicity – Oral	Category 2
Acute Toxicity – Dermal	Category 2
Skin Corrosion/Irritation	Category 2
Sensitization-Skin	Category 1
Acute Toxicity – Skin	Category 2
Eye damage/Irritation	Category 1
Acute Toxicity – Inhalation	Category 2
Germ cell Mutagenicity	Category 1

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Carcinogenicity Category 1
Specific Target Organ Toxicity (Repeated exposure) Category 2
Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard Category 1

> GHS Label Elements

Pictogram



Signal Word > Hazard Statements


Danger

- H225 Highly flammable liquid and vapour
- H300 Fatal if swallowed
- H310 Fatal in contact with skin
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H330 Fatal if inhaled
- H340 May cause genetic defects
- H350 May cause cancer
- H373 May cause damage to organs through prolonged or repeated exposure
- H400 Very toxic to aquatic life


> Precautionary Statements

Prevention

- P203 Obtain, read and follow all safety instructions before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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P262	Do not get in eyes, on skin, or on clothing.
P264	Wash contact area thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
Response	
P316	Get emergency medical help immediately.
P317	Get medical help.
P318	IF exposed or concerned, get medical advice.
P319	Get medical help if you feel unwell.
P320	Specific treatment is urgent (see measures on this label).
P321	Specific treatment (see measures on this label).
P330	Rinse mouth.
P391	Collect spillage.
P301+P316	IF SWALLOWED: Get emergency medical help.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P317	If skin irritation occurs ; Get medical help.
P333+P317	If skin irritation or rash occurs: Get medical help.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use suitable extinguishing medium to extinguish.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/

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international regulations.

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Dichlorvos Calcium dodecylbenzenesulphonate	77.5 10	62-73-7 26264-06-2	200-547-7 247-557-8
Xylene 150#Solvent oil	5.5 7	1330-20-7 64742-95-6	215-535-7 265-199-0

Section 4 First Aid Measures

> Description of First Aid Measures

Immediate medical attention is required. Show this safety data sheet (SDS) to

General Advice

the doctor in attendance.

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Inhalation

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Protecting of First-aiders

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.


> Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following

1 repeated or long-term occupational exposure.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

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Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable Extinguishing Media	Dry chemical, carbon dioxide or alcohol-resistant foam.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter or spread fire.

> Specific Hazards Arising from the Substance or Mixture

- 1 Will form explosive mixtures with air.
Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
- 2
- 3 Vapours may travel to source of ignition and flash back.
- 4 Liquid and vapour are flammable.
- 5 May emit poisonous fumes on fire.
- 6 Containers may explode when heated.
- 7 Fire exposed containers may vent contents through pressure relief valves.
- 8 May expansion or decompose explosively when heated or involved in fire.


> Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Avoid breathing vapors and contacting with skin and eye.
- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 4

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- 5 Ensure adequate ventilation. Remove all sources of ignition.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

> Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.


Section 7 Handling and Storage

> Precautions for Handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 3 grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 Keep away from heat/sparks/open flames/ hot surfaces.
- 9 Take precautionary measures against static discharges.

> Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

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Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

Component	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term	
		ppm	mg/m ³	ppm	mg/m ³
Dichlorvos 62-73-7	USA - OSHA	-	1	-	-
	South Korea	0.01	0.1	-	-
	Ireland	0.1	1	0.3	3
	Germany (AGS)	0.11	1	0.22	2
	Denmark	0.1	1	0.2	2
	Australia	0.1	0.9	-	-
Xylene 1330- 20-7	USA - OSHA	100	435	-	-
	South Korea	100	435	150	655
	Ireland	50	221	100	442
	Germany (AGS)	100	440	200	880
	Denmark	25	109	50	218
	Australia	80	350	150	655

Biological Limit Values

No information available

Monitoring Methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the

1 assessment of exposure to chemical and biological agents.

GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T

2


300 Determination of toxic substances in workplace air(Series standard).

> Engineering Controls

1 Ensure adequate ventilation, especially in confined areas.

2 Ensure that eyewash stations and safety showers are close to the workstation location.

3 Use explosion-proof electrical/ventilating/lighting/equipment.

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- 4 Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment

Eye Protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).
Hand Protection	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and Body Protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: Light yellow liquid	Odor: No information available
Odor Threshold: No information available	pH: No information available
Melting Point/Freezing Point (°C): No information available	Evaporation Rate: No information available
Flash Point (°C)(Closed Cup): <20	Initial Boiling Point and Boiling Range (°C): No information available
Flammability: Not applicable	Upper/lower explosive limits[%(v/v)]: Upper limit : No information available ; Lower limit : No information available
Vapor Pressure (KPa): No information available	Relative Vapour Density(Air=1): No information available
Relative Density(Water=1): No information available	Solubility: No information available
n-Octanol/Water Partition Coefficient: No information available	Auto-Ignition Temperature(°C): No information available
Decomposition Temperature (°C): No information available	Kinematic Viscosity (mm²/s): No information available
Particle characteristics: Not applicable	

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Section 10 Stability and Reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical Stability	Stable under proper operation and storage conditions.
Possibility of Hazardous Reactions	No information available
Conditions to Avoid	Incompatible materials, heat, flame and spark.
Incompatible Materials	No information available
Hazardous Decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)
Dichlorvos	62-73-7	17mg/kg(Rat)	107mg/kg(Rabbit)	0.015mg/L(Rat)
Xylene	1330-20-7	4300mg/kg(Rat)	> 1700mg/kg(Rabbit)	21.712mg/L(Rat)

> Skin Corrosion/Irritation

Causes skin irritation(Category 2)

> Serious Eye Damage/Irritation


Causes serious eye damage(Category 1)

> Skin Sensitization

May cause an allergic skin reaction(Category 1)

> Respiratory Sensitization

No information available

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> Germ Cell Mutagenicity

May cause genetic defects(Category 1)

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	62-73-7	Dichlorvos	Category 2B	Not Listed
2	26264-06-2	Calcium dodecylbenzenesulpho nate	Not Listed	Not Listed
3	1330-20-7	Xylene	Category 3	Not Listed
4	64742-95-6	150#Solvent oil	Not Listed	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

No information available

> STOT-Repeated Exposure

May cause damage to organs through prolonged or repeated exposure(Category 2)


> Aspiration Hazard

No information available

Section 12 Ecological Information

> Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
Dichlorvos	62-73-7	LC ₅₀ : 1.32mg/L (96h)(Fish)	EC ₅₀ : 0.00028mg/L (48h)	No information available

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Xylene	1330-20-7	LC ₅₀ : 15.7mg/L (96h)(Fish)	No information available	No information available
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> Chronic Aquatic Toxicity

No information available

> Others

Persistence and

Degradability

No information available

Bioaccumulative

Potential

No information available

Mobility in Soil

No information available

Results of PBT and vPvB Assessment

Dichlorvos does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Calcium dodecylbenzenesulphonate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Xylene does not meet the criteria for PBT and vPvB according to Regulation (EC)

No 1907/2006, annex XIII.

150#Solvent oil does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Section 13 Disposal Considerations

Waste Chemicals

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.


Contaminated Packaging

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Disposal

Refer to Waste chemicals and Contaminated packaging.

Recommendations

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Section 14 Transport Information

Transporting Label

Marine pollutant



UN Number

UN Proper Shipping Name

Yes

Transport Hazard Class

2784

Transport Subsidiary Hazard Class

ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC,
flash point less than 23°C 3 6.1

Packing Group

II

Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Dichlorvos	√	√	√	√	√	√	√	√	×
Calcium dodecylbenzenesulphonate	√	√	√	√	√	√	√	√	√
Xylene	√	√	√	√	√	√	√	√	√
150#Solvent oil	√	√	√	√	√	√	√	√	×

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List.

【IECSC】 China Inventory of Existing Chemical Substances.


【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.

【KECI】 Existing and Evaluated Chemical Substances.

【AICS】 Australia Inventory of Chemical Substances.

【ENCS】 Existing And New Chemical Substances.

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Note

“√” Indicates that the substance included in the regulations

“x” That no data or included in the regulations

Section 16 Additional Information

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user’s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.