

	<b>GSP Crop Science Ltd</b>	
	<b>SAFETY DATA SHEET</b>	
	Acephate 97% SG	

Version: 03	Revision Date: 30.12.2024	This version replaces all previous versions
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SECTION 1: Identification of the substance or mixture and of the supplier		
<b>1.1 Product identifier</b>		
Product	:	Acephate 97% SG
Pure substance/mixture	:	Mixture
<b>1.2 Other means of identification</b>		
Trade Name	:	--
<b>1.3 Recommended use of the chemical and restrictions on use</b>		
Identified uses	:	Insecticide
Use advised against	:	No data available
<b>1.4 Supplier's details</b>		
Name	:	GSP Crop Science Limited
Address	:	404, Lalita Complex, Rasala Road, Mithakhali Six Road, Navrangpura, Ahmedabad- 380009, Gujarat, India.
Phone number	:	+91-79 26466580
Email address	:	<a href="mailto:info@gspcrop.in">info@gspcrop.in</a>
<b>1.5 Emergency phone number</b>		
	:	+91 79 22900451 +91 79 61915111 +91 79 61915151 <b>Timing:</b> IST 9 :30 to 17:30 hrs.
SECTION 2: Hazards identification		
<b>2.1 GHS classification of the substance/mixture</b>		
Hazard Category	:	Acute oral toxicity Category 4
<b>2.2 GHS label elements</b>		
Hazard Pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H302 Harmful if swallowed
Supplement Hazard statements	:	--
<b>Precautionary Statements</b>		
Prevention	:	P264 Wash hand thoroughly after handling P270 Do not eat, drink or smoke when using this product.
Response	:	P301 + P317 IF SWALLOWED: Get medical help R330 Rinse mouth P302 + P317 IF ON SKIN: Get medical help
Storage & Disposal	:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>2.3 Other hazards which do not result in classification or are not covered by the GHS.</b>		

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	:	No data available
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### SECTION 3 : Composition/information on ingredients

#### 3.1 Substance : NA

#### 3.2 Hazardous components of Mixture:

Chemical name/ Common Name	Content % w/w	CAS Number	Classification	Hazard statements
Acephate	94.5-99.5	30560-19-1	Acute oral 4	H302
Other inert components	0.5-5.5	-	None	None

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice	:	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
If inhaled	:	Supply fresh air, rest. If breathing is irregular, administer artificial respiration. Call a Physician.
In case of skin contact	:	Remove contaminated clothes. Rinse and then wash off the skin with plenty of water and soap.
In case of eye contact	:	Immediately flush with plenty of water. Remove any contact lenses and continue flushing for 15 minutes keeping the eyes wide open. If symptoms persist, call a Physician.
If swallowed	:	Rinse mouth. Do NOT induce vomiting. Refer for medical attention. If symptoms persist, call a Physician.

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

Symptoms	:	Nonspecific. No further relevant information available.
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#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	No specific antidote available. Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable Extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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#### 5.2 Specific hazards arising from the chemical

Specific hazards during firefighting	:	In case of fire, use water extinguishers in the form of mist, carbon dioxide (CO <sub>2</sub> ) or chemical powder. Staying downwind to avoid poisoning.  Exposure to decomposition products may be a hazard to health.
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#### 5.3 Special protective actions for fire-fighters

Advice for firefighters	:	In the event of fire, do not breathe fumes. Do not attempt to take action without suitable protective equipment, self-contained breathing apparatus & complete protective clothing.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

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

Personal precautions	:	Use waterproof overalls, protective glasses, rubber boots and nitrile rubber or polyvinyl chloride (PVC) gloves. Respiratory protection must be carried out depending on concentrations present in the environment or the extent of the spill/leak. In this case, you should opt for half-face or full-face masks with a replaceable filter or even air intake respirators (e.g., stand-alone masks).
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#### 6.2 Environmental precautions

Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Try not to let this chemical enter the environment.  Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
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#### 6.3 Methods and material for containment and cleaning up

Handling and storage	:	Store and dispose of according to local regulations.
Methods for cleaning up	:	Collect spilled liquid with non-combustible absorbent material. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling	:	No special protective measures against fire required. 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.
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#### 7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers	:	Keep in a well-ventilated room. Store in original tightly closed container. Keep out of reach of the children. Do not contaminate water, food, or feed by storage or disposal.
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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational Exposure limit values	:	No data available
Biological limit values	:	No data available

#### 8.2 Appropriate engineering controls

Engineering measures	:	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.
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#### 8.3 Individual protection measures

Eye Protection	:	Wear safety spectacles or eye protection.
Hand Protection	:	Protective gloves made of plastic or rubber. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection	:	Wear protective clothing, including boots, gloves, lab coat, apron or cover all, as appropriate to avoid skin contact.



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Respiratory Protection	:	Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release.
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### SECTION 9: Physical and chemical properties

i. Appearance (physical state, color)	:	White granule
ii. Odor	:	Pungent odor
iii. Odor threshold	:	No data available
iv. pH	:	4-6 (1% Aqueous solution)
v. Melting point/freezing point	:	90.7°C – 92.3°C (technical)
vi. Initial boiling point and boiling range	:	Not applicable
vii. Flash point	:	Not applicable
viii. Evaporation rate	:	No data available
ix. Flammability (solid, gas)	:	Non-flammable
x. Upper/lower flammability or explosive limits	:	No data available
xi. Vapor pressure	:	$3.79 \times 10^{-3}$ Pa at 25°C (technical)
xii. Vapor density	:	No data available
xiii. Relative density	:	Density: $1.2386 \pm 0.10$ g/mL at $20.0 \pm 1.0^\circ\text{C}$
xiv. Solubility(ies)	:	Miscible in water. Miscible in methanol and immiscible in Acetone and n-Hexane
xv. Partition coefficient: n-octanol/water	:	Log $P_{ow}$ -0.93 at $25 \pm 1.0^\circ\text{C}$ (technical)
xvi. Auto-ignition temperature	:	No data available
xvii. Decomposition temperature	:	No data available
xviii. Viscosity	:	No data available
xx. Others Surface Tension	:	56.9 mN/m at $20 \pm 0.5^\circ\text{C}$

### SECTION 10: Stability and reactivity

10.1 Reactivity	:	None reasonably foreseeable.
10.2 Chemical stability	:	Stable under normal conditions
10.3 Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	:	None known.
10.5 Incompatible materials	:	None known.
10.6 Hazardous decomposition products	:	No hazardous decomposition products are known.

### SECTION 11: Toxicological information

#### 11.1 Acute Toxicity

Exposure	Measurement (species)	Value	Hazard Category
Oral	LD <sub>50</sub> (Rat) mg/kg body weight	500 (cut-off value)	GHS Category 4
Dermal	LD <sub>50</sub> (Rat) mg/kg body weight	>2000	GHS Category 5
Inhalation	LC <sub>50</sub> (Rat) mg/kg body weight	>3.52 mg/L (no mortality)	Unclassified



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Skin corrosion/irritation	(Rabbit)	Non-Irritant	Unclassified	
Serious eye damage irritation	(Rabbit)	Non-Irritant	Unclassified	
Skin sensitization	(Guinea pig)	Non sensitizer	Unclassified	
11.2 Germ cell mutagenicity	:	Non-Mutagenic		
11.3 Carcinogenicity	:	Non-Carcinogenic		
11.4 Reproductive toxicity	:	No reproductive effect		
11.5 STOT Repeated exposure	:	May lead to effects on the nervous system, liver, and reproductive system due to its neurotoxic potential.		
SECTION 12: Ecological information				
12.1 Aquatic Toxicity				
Organism	Species	Unit	Value	Hazard Category
Toxicity to fish	Freshwater Fish (Guppy fish)	LC <sub>50</sub> (96 hrs) mg/L	>100	Unclassified
Toxicity to aquatic invertebrates	Daphnia magna (Water flea),	EC <sub>50</sub> (48 hrs) mg/L	>100	Unclassified
Toxicity to aquatic plants	Algae	E <sub>r</sub> C <sub>50</sub> (72 hrs) mg/L	>100	Unclassified
12.2 Persistence and degradability				
	:	Not persistent in soil		
12.3 Bioaccumulative potential				
	:	Low bioaccumulation potential		
12.4 Mobility in soil				
	:	Moderately mobile		
12.5 Other adverse effects				
Results of PBT and vPvB assessment	:	Not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).		
SECTION 13 : Disposal considerations				
Waste treatment methods	:	Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.		
Contaminated packaging	:	Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.		
SECTION 14: Transport information				
14.1 UN Number				
ADR/RID: Not applicable	IMDG: Not applicable	IATA: Not applicable		
14.2 UN Proper Shipping Name				
ADR/RID: Not classified	IMDG: Not classified	IATA: Not classified		
14.3 Transport Hazard class(es)				
ADR/RID: Not classified	IMDG: Not classified	IATA: Not classified		
14.4 Packing group, if applicable				
ADR/RID: Not classified	IMDG: Not classified	IATA: Not classified		

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<b>14.5 Environmental hazards Marine pollutant</b>		
ADR/RID: Not classified	IMDG: Not classified	IATA: Not classified
PRODUCT IS NOT CLASSIFIED AS PER CURRENT RESOLUTION ON TRANSPORTATION OF DANGEROUS PRODUCTS FOR AIR, WATER AND LAND MODES.		
<b>14.6 Special precautions for user</b>		
	:	None
<b>14.7 Transport in bulk according to IMO instruments</b>		
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :</b>	:	Not applicable for product as supplied.
<b>SECTION 15: Regulatory information</b>		
Safety, health and environmental regulations specific for the product in question.		
Full text of H-Statements	:	H302 Harmful if swallowed
REACH - Candidate List of Substances of Very High Concern for Authorisation	:	No
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	No
Regulation (EC) No 850/2004 on persistent organic pollutants	:	No
<b>SECTION 16 : OTHER INFORMATION</b>		
<b>16.1 Information on revision</b>		
Version 02 of SDS updated on 18.06.2024 for aligning it as per GHS format.		
Version 03 of SDS updated on 30.12.2024 for Manufacturer's name changed from GSP Crop Science Private Limited to GSP Crop Science Limited.		
<b>16.2 Abbreviations and acronyms</b>		
GHS	:	Globally Harmonized System
CAS	:	Chemical Abstracts Service
LC <sub>50</sub>	:	Lethal Concentration 50%
LD <sub>50</sub>	:	Lethal Dose 50%
EC <sub>50</sub>	:	Effective Concentration 50%
PBT	:	Persistent, Bioaccumulative and Toxic substance
vPvB	:	Very Persistent and Very Bioaccumulative
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	:	Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG	:	International Maritime Dangerous Goods
IATA	:	International Air Transportation Association
MARPOL	:	International Convention for the Prevention of Pollution from Ships
STOT	:	Specific target organ toxicity
<b>16.3 References</b>		
<ul style="list-style-type: none"> <li>CHEMICAL SAFETY INFORMATION FROM INTERGOVERNMENTAL ORGANIZATIONS INCHEM. Available at: <a href="http://www.inchem.org/">http://www.inchem.org/</a>. Accessed on: December 15, 2023.</li> </ul>		

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<ul style="list-style-type: none"> <li>• GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev.</li> <li>• EUROPEAN FOOD SAFETY AUTHORITY <a href="https://www.efsa.europa.eu/pt">https://www.efsa.europa.eu/pt</a>. Accessed on: December 15, 2023.</li> <li>• Unpublished reports – GSP Crop Science Limited, India.</li> </ul>
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*Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.*