



**Material Safety Data Sheet**  
**TEMIK® BRAND 15G ALDICARB PESTICIDE**

MSDS Number: 102000001960  
 MSDS Version 2.0  
 Revision Date: 02/25/2008

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product Name** TEMIK® BRAND 15G ALDICARB PESTICIDE  
**MSDS Number** 102000001960  
**EPA Registration No.** 264-330

Bayer CropScience  
 2 T.W. Alexander Drive  
 Research Triangle PK, NC 27709  
 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
 For Product Information call: 1-866-99BAYER (1-866-992-2937)

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Aldicarb	116-06-3	15.00
Dichloromethane	75-09-2	0.50
Acetic acid ethenyl ester, polymer with chloroethene	9003-22-9	

**SECTION 3. HAZARDS IDENTIFICATION**

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Danger! Poison. Fatal if swallowed. Cholinesterase inhibitor. May be fatal or harmful by skin or eye contact or by breathing dust. Rapidly absorbed through skin or eyes. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Keep out of reach of children and animals.

**Physical State** solid pellets

**Odor** sulfurous

**Appearance** grey to black

**Routes of Exposure** Ingestion, Inhalation, Eye contact, Skin Absorption

**Immediate Effects**

**Eye** May cause redness, irritation, tearing. May be absorbed through the eye and produce symptoms similar to those from ingestion. Do not get in eyes.

**Skin** May be harmful or fatal if absorbed through the skin. May produce symptoms similar to those from ingestion. Do not get on skin or clothing.



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<b>Ingestion</b>	Fatal if swallowed. This product causes reversible cholinesterase inhibition. Repeated overexposure may cause more severe cholinesterase inhibition with more pronounced symptoms. May lead to rapid onset of nausea, vomiting, diarrhea, abdominal pain, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression and convulsions. Do not take internally.
<b>Inhalation</b>	May be fatal or harmful if inhaled. May produce symptoms similar to those from ingestion. Do not breathe dust.
<b>Chronic or Delayed Long-Term</b>	This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic). This product or its components may have long term (chronic) health effects.
<b>Medical Conditions Aggravated by Exposure</b>	Skin contact may aggravate existing skin disease. Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.
<b>Potential Environmental Effect</b>	Toxic to fish, birds, and other wildlife. Toxic to aquatic invertebrates.

**SECTION 4. FIRST AID MEASURES**

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Skin</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Notes to Physician Signs and Symptoms</b>	Temporary blurred vision due to contraction of the pupils (miosis) following contact with the eyes. bradycardia low blood pressure Salivation



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bronchial hypersecretion  
Vomiting  
Diarrhoea  
sweating  
muscular fasciculation  
spasm  
breathing difficulties  
respiratory paralysis  
somnia  
Coma  
respiratory failure  
hypothermia  
Convulsions  
Nausea

**Hazards** This product contains a cholinesterase inhibitor carbamate.

**Treatment** The product inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. If symptoms of carbamate poisoning are present, the administration of atropine sulfate is indicated.

ANTIDOTE: Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. In mild cases, start treatment by giving 1-2 mg of atropine intravenously every 15 minutes until signs of atropinization appear (dry mouth, flushing and dilated pupils if pupils were originally pinpoint). In severe cases 2 to 4 mg should be injected intravenously every 10 minutes until fully atropinized, then intramuscularly every 30 to 60 minutes as needed to maintain the effect for at least 12 hours. Dosages for children should be appropriately reduced.

Do not use oximes such as 2-PAM unless organophosphate intoxication is suspected. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 24-48 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

To aid in confirmation of a diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen. Analysis will be arranged by Bayer. Call 1-800-334-7577 before sending samples.

**SECTION 5. FIRE FIGHTING MEASURES**

**Flash point** not applicable



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<b>Fire and Explosion Hazards</b>	<p>In the event of fire the following can be released: Sulphur oxides Nitrogen oxides (NOx) Carbon monoxide (CO)</p> <p>Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.</p>
<b>Suitable Extinguishing Media</b>	Water spray, Carbon dioxide (CO2), Foam, Dry powder
<b>Unsuitable extinguishing media</b>	High volume water jet
<b>Fire Fighting Instructions</b>	<p>Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
<b>Methods for Cleaning Up</b>	Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
<b>Additional Advice</b>	Use personal protective equipment. Do not allow product to contact vegetation.

**SECTION 7. HANDLING AND STORAGE**

<b>Handling Procedures</b>	<p>Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.</p> <p>Take measures to prevent the build up of electrostatic charge.</p>
<b>Storing Procedures</b>	<p>Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.</p> <p>Keep away from food, drink and animal feedingstuffs.</p>
<b>Work/Hygienic</b>	Wash hands thoroughly with soap and water after handling and before eating,



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**Procedures** drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Min/Max Storage Temperatures** Recommended maximum transport/storage temperature: 46 °C / 115 °F  
The 30-day storage temperature average must not exceed the recommended maximum.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.  
  
Follow all label instructions. Train employees in safe use of the product.

**Eye/Face Protection** Tightly fitting safety goggles

**Hand Protection** Chemical resistant nitrile rubber gloves

**Body Protection** Wear long-sleeved shirt and long pants and shoes plus socks.  
Chemical resistant apron when cleaning equipment, mixing or loading.

**Respiratory Protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Exposure Limits**

Aldicarb	116-06-3	WEEL	TWA	0.07 mg/m3
		OES BCS*		0.07 mg/m3
Dichloromethane	75-09-2	ACGIH	TWA	50 ppm
		OSHA	REF	29 CFR 1910.1052
		OSHA	TWA	25 ppm
		OSHA	STEL	125 ppm
		OSHA	OSHA_ACT	12.5 ppm
		US CA OEL	TWA PEL	25 ppm
		US CA OEL	STEL	125 ppm
		US CA OEL	TWA A LV	12.5 ppm
		TX ESL	ST ESL	75 ppm
		TX ESL	AN ESL	7.5 ppm

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"



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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	grey to black
<b>Physical State</b>	solid pellets
<b>Odor</b>	sulfurous
<b>pH</b>	6 - 6.5 (1 %) emulsion in water
<b>Bulk Density</b>	32 - 41 lb/ft <sup>3</sup> loose
<b>Water solubility</b>	slightly soluble

**SECTION 10. STABILITY AND REACTIVITY**

<b>Incompatibility</b>	Strong bases
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of: Carbon monoxide Nitrogen oxides (NO <sub>x</sub> ) Sulphur oxides
<b>Hazardous Reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions. Dust may form explosive mixtures with air. Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the technical-grade active ingredient, aldicarb.

<b>Acute Oral Toxicity</b>	rabbit: LD50: 8.4 mg/kg
<b>Acute Dermal Toxicity</b>	male rabbit: LD50: 1,960 mg/kg female rabbit: LD50: 2,000 mg/kg
<b>Skin Irritation</b>	Product is highly toxic and is rapidly absorbed through the eyes and skins.
<b>Eye Irritation</b>	Product is highly toxic and is rapidly absorbed through the eyes and skins.
<b>Chronic Toxicity</b>	Aldicarb caused cholinesterase inhibition in chronic studies in rats and dogs.
<b>Assessment Carcinogenicity</b>	



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Aldicarb was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

Dichloromethane	75-09-2	Group A3
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**NTP**

Dichloromethane	75-09-2	
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**IARC**

Aldicarb	116-06-3	Overall evaluation: 3
Dichloromethane	75-09-2	Overall evaluation: 2B
Acetic acid ethenyl ester, polymer with chloroethene	9003-22-9	Overall evaluation: 3

**OSHA**

Dichloromethane	75-09-2	
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**Reproductive & Developmental Toxicity**

**REPRODUCTION:** Aldicarb was not considered a primary reproductive toxicant in rats. Decreased pup body weights and reduced viability occurred in conjunction with maternal toxicity.

**DEVELOPMENTAL TOXICITY:** Aldicarb was not a primary developmental toxicant in rats and rabbits. Developmental effects (e.g., delayed ossifications) were observed at doses that caused maternal toxicity.

**Neurotoxicity**

Aldicarb caused transient neurobehavioral effects related to cholinergic toxicity in acute, subchronic and developmental neurotoxicity screening studies in rats. There were no neuropathological changes observed in these studies. Aldicarb did not demonstrate delayed neurotoxicity in hens.

**Mutagenicity**

Aldicarb was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental Precautions**

Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

**Ecological Information**

Exposed treated seed may be hazardous to birds.



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**SECTION 13. DISPOSAL CONSIDERATIONS**

- General Disposal Guidance** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Open dumping is prohibited.
- Container Disposal** Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.
- RCRA Classification** The RCRA Classifications may be on the individual component(s) and not necessarily on the product as a whole.
- 116-06-3 Aldicarb  
US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): P070
  - 116-06-3 Aldicarb  
US. EPA Resource Conservation and Recovery Act (RCRA) P List of Hazardous Wastes (40 CFR 261.33(e) and 40 CFR 302 [CERCLA]): P070
  - 75-09-2 Dichloromethane  
US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): U080
  - 75-09-2 Dichloromethane  
US. EPA Resource Conservation and Recovery Act (RCRA) U List of Hazardous Wastes (40 CFR 261.33(f) and 40 CFR 302 [CERCLA]): U080

**SECTION 14. TRANSPORT INFORMATION**

**DOT CLASSIFICATION:**  
UN2757, Carbamate Pesticides, Solid, Toxic, 6.1 // PG II // RQ(Aldicarb)

**IMDG CLASSIFICATION:**  
UN2757, Carbamate Pesticides, Solid, Toxic, ( Aldicarb 15%), 6.1, // PG II // RQ(Aldicarb) // Marine Pollutant

**FREIGHT CLASSIFICATION:**  
Insecticides or Fungicides, N.O.I., poison, other than gases that are poisonous by inhalation

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 264-330





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**US Federal Regulations**

**TSCA list**

Aldicarb	116-06-3
Dichloromethane	75-09-2
Acetic acid ethenyl ester, polymer with chloroethene	9003-22-9

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

Aldicarb	116-06-3
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**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

Aldicarb	116-06-3	1.0%
Dichloromethane	75-09-2	0.1%

**US States Regulatory Reporting**

**CA Prop65**

This product contains a chemical known to the State of California to cause cancer.

Dichloromethane	75-09-2
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This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

Aldicarb	116-06-3	CA, CT, IL, LA, MA, NJ, PA
Dichloromethane	75-09-2	CA, CT, IL, MA, MI, MN, NJ, PA, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

Dichloromethane	75-09-2
Acetic acid ethenyl ester, polymer with chloroethene	9003-22-9

**Environmental**

**CERCLA**

Aldicarb	116-06-3	1 lbs
Dichloromethane	75-09-2	1,000 lbs

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

**European Inventory of Existing Commercial Substances (EINECS)**

Aldicarb	116-06-3
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**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 4      Flammability - 1      Reactivity - 1      Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Updated due to new system and numbering scheme. Updated for general editorial purposes.

Revision Date: 02/25/2008

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