# Chemical Book India

MC		Chem	ical Safety	Data Shee	t MSDS / S	DS	F A P P P	À
				omecarb SDS 24-04-25 Revision	n Number:1			
Section 1 Section 9	Section 2 Section 10	Section 3 Section 11	Section 4 Section 12	Section 5 Section 13	Section 6 Section 14	Section 7 Section 15	Section 8 Section 16	
SECTION 1: Product idea Product nam CAS:	<b>ntifier</b> ne: P	on of the su romecarb 631-37-0	bstance/mi>	cture and of	the compar	ıy/undertak	ting	
Relevant identified uses of the substance or mixture and uses advised against								
Relevant ide uses:	entified F	or R&D use only.	. Not for medici	inal, household	or other use.			
Uses advised against:	i n	one						
Company Id	entification							
Company:	C	hemicalbook.in						
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# **SECTION 2: Hazards identification**

## Classification of the substance or mixture

Acute toxicity - Category 3, Oral Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1 Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

#### GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Danger

## Hazard statement(s)

H301 Toxic if swallowed H410 Very toxic to aquatic life with long lasting effects

## Precautionary statement(s)

## Prevention

P264 Wash ... thoroughly after handling.P270 Do not eat, drink or smoke when using this product.P273 Avoid release to the environment.

## Response

P301+P316 IF SWALLOWED: Get emergency medical help immediately. P321 Specific treatment (see ... on this label). P330 Rinse mouth. P391 Collect spillage.

## Storage

P405 Store locked up.

## 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.

## Other hazards which do not result in classification

no data available

# SECTION 3: Composition/information on ingredients

#### Substance

Chemical name:	Promecarb
Common names and synonyms:	Promecarb
CAS number:	2631-37-0
EC number:	220-113-0
Concentration:	100%

# **SECTION 4: First aid measures**

#### Description of necessary first-aid measures

## lf inhaled

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

## Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

## Following ingestion

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

## Most important symptoms/effects, acute and delayed

Promecarb is highly toxic by ingestion and is absorbed through the intact skin. It is a reversible cholinesterase inhibitor and its effects are related to action on the nervous sysem. (EPA, 1998)

## Indication of immediate medical attention and special treatment needed, if necessary

Absorption, Distribution and Excretion

Carbamate insecticides/ are rapidly metabolized, 80% of dose being eliminated in urine, mainly as sulfate or glucuronide conjugate, within 24 hr; 0.5 to 1.5% is found in feces, 0.1 to 1.0% in the milk. carbamates

## **SECTION 5: Firefighting measures**

#### Suitable extinguishing media

Non-Specific -- Carbamate Pesticide, Solid, n.o.s.) Stay upwind; keep out of low areas. Move container from fire area if you can do it without risk. Fight fire from maximum distance. Dike fire control water for later disposal; do not scatter the material. Wear positive pressure breathing apparatus and special protective clothing. (Non-Specific -- Carbamates) Extinguish fire using agent suitable for the surrounding fire, as the material itself burns with difficulty. Use water in flooding quantities as a fog. Use alcohol foam, carbon dioxide, or dry chemical. (Non-Specific -- Carbamate Pesticide, Solid, n.o.s.) This material may burn, but does not ignite readily. For small fires, use dry chemical, carbon dioxide, water spray, or foam. For large fires, use water spray, fog, or foam. (EPA, 1998)

#### Specific hazards arising from the chemical

Non-Specific -- Carbamate Pesticide, Solid, n.o.s.) Container may explode in heat of fire. Fire and runoff from fire control water may produce irritating or poisonous gases. Hydrolyzed by alkalis. Stable. No changes observed on storage for 140 hours at 122F. (EPA, 1998)

## Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

# SECTION 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## SECTION 7: Handling and storage

#### Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

## SECTION 8: Exposure controls/personal protection

**Control parameters** 

#### Occupational Exposure limit values

no data available

#### **Biological limit values**

no data available

#### Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

#### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

## Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

## **Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

## Thermal hazards

no data available

# SECTION 9: Physical and chemical properties and safety characteristics

Physical state:	Almost odorless, colorless crystalline solid. Used as a non-systemic contact insecticide. Not for sale or use in the USA. (EPA, 1998)
Colour:	COLORLESS CRYSTALLINE SOLID
Odour:	ALMOST ODORLESS
Melting point/freezing point:	87-88°C
Boiling point or initial boiling point and boiling range:	282°C at 760mmHg
Flammability:	no data available
Lower and upper explosion limit/flammability limit:	no data available
Flash point:	124.3°C
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available

pH:	no data available
Kinematic viscosity:	no data available
Solubility:	SOL IN POLAR ORG SOLVENTS
Partition coefficient n- octanol/water:	log Kow= 3.10 (measured)
Vapour pressure:	3e-05 mm Hg at 77 $^{\circ}$ F (EPA, 1998)
Vapour pressure: Density and/or relative density:	3e-05 mm Hg at 77° F (EPA, 1998) 1.024g/cm3
Density and/or	

# SECTION 10: Stability and reactivity

## Reactivity

No rapid reaction with air. No rapid reaction with water.

## Chemical stability

No change at 50 deg C for 140 hr, half life @ pH 7, 310 hr & @ pH 9, 5.7 hr.

## Possibility of hazardous reactions

PROMECARB is a carbamate ester. Carbamates are chemically similar to, but more reactive than amides. Like amides they form polymers such as polyurethane resins. Carbamates are incompatible with strong acids and bases, and especially incompatible with strong reducing agents such as hydrides. Flammable gaseous hydrogen is produced by the combination of active metals or nitrides with carbamates. Strongly oxidizing acids, peroxides, and hydroperoxides are incompatible with carbamates.

## Conditions to avoid

no data available

## Incompatible materials

no data available

#### Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

Acute toxicity Oral: LD50 Mouse oral 39.5 mg/kg Inhalation: LC50 Rat inhalation > 0.16 mg/l/4 hr Dermal: LD50 Rat percutaneous > 1000 mg active ingredient (as 50% wp)/kg

### Skin corrosion/irritation

no data available

#### Serious eye damage/irritation

no data available

#### Respiratory or skin sensitization

no data available

## Germ cell mutagenicity

no data available

## Carcinogenicity

no data available

## Reproductive toxicity

no data available

#### STOT-single exposure

no data available

#### STOT-repeated exposure

no data available

#### Aspiration hazard

no data available

# SECTION 12: Ecological information

Toxicity Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available Toxicity to microorganisms: no data available

#### Persistence and degradability

In pure culture biodegradation studies using Pseudomonas putida, Flavobacter sp, and Aeromonas liquefaciens, only 1.7-16.8% of initial concn of promecarb remained after 28 days of incubation(1); 84.3% of initial promecarb remained after 28 in controls(1).

#### Bioaccumulative potential

Based upon a water solubility of 91 ppm at 25 deg C(1) and a measured log Kow of 3.10(2), the bioconcentration factor (BCF) for promecarb can be estimated to be 49 and 134, respectively, from recommended regression- derived equations(3,SRC). These BCF estimates suggest a low potential for bioconcentration(SRC).

#### Mobility in soil

Utilizing soil thin-layer chromatography, the Rf value of promecarb in Hagerstown silty clay loam soil was measured to be 0.34 which is suggestive of low to moderate soil mobility(1). Based upon a water solubility of 91 ppm at 25 deg C(2) and a measured log Kow of 3.10(3), the Koc value for promecarb can be estimated to range from 365 to 1240 from various regression-derived equations(4,SRC). These estimated Koc values also indicate low to medium soil mobility(5).

#### Other adverse effects

no data available

# SECTION 13: Disposal considerations

#### Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

## Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# **SECTION 14: Transport information**

## **UN Number**

ADR/RID: UN2757 (For reference only, please check.) IMDG: UN2757 (For reference only, please check.) IATA: UN2757 (For reference only, please check.)

## **UN Proper Shipping Name**

ADR/RID: CARBAMATE PESTICIDE, SOLID, TOXIC (For reference only, please check.) IMDG: CARBAMATE PESTICIDE, SOLID, TOXIC (For reference only, please check.) IATA: CARBAMATE PESTICIDE, SOLID, TOXIC (For reference only, please check.)

## Transport hazard class(es)

ADR/RID: 6.1 (For reference only, please check.) IMDG: 6.1 (For reference only, please check.) IATA: 6.1 (For reference only, please check.)

## Packing group, if applicable

ADR/RID: I (For reference only, please check.) IMDG: I (For reference only, please check.) IATA: I (For reference only, please check.)

#### Environmental hazards

ADR/RID: Yes IMDG: Yes IATA: Yes

#### Special precautions for user

no data available

## Transport in bulk according to IMO instruments

no data available

# SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS)

Listed.

EC Inventory

Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Not Listed.

China Catalog of Hazardous chemicals 2015

Listed.

New Zealand Inventory of Chemicals (NZIoC)

Not Listed.

(PICCS)

Not Listed.

Vietnam National Chemical Inventory

Listed.

IECSC)

Not Listed.

Korea Existing Chemicals List (KECL)

Listed.

# **SECTION 16: Other information**

Abbreviations and acronyms

CAS: Chemical Abstracts Service

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

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=O&request\_locale=en

CAWEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

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