

MATERIAL SAFETY DATA SHEET



REPAR IMIDA 2C INSECTICIDE

Repar Corporation
P.O. Box 4321
Silver Spring, MD 20914

Emergency Phone: 800-424-9300 (CHEMTREC)

Effective Date: 05/01/2012

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: REPAR IMIDA 2C INSECTICIDE
EPA Registration No. 69361-36
Company Identification: Repar Corporation
P.O. Box 4321
Silver Spring, MD 20914

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
Imidacloprid	138261-41-3	21.40

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Hazard to humans and domestic animals. Keep out of reach of children and animals. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.

Physical State viscous liquid suspension

Odor mild

Appearance off-white

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

Immediate Effects

Eye May cause eye irritation. Eye injury may persist for several days.

Skin Harmful if absorbed through skin. No skin irritation. Non-sensitizing.

Ingestion Harmful if swallowed.

Inhalation Harmful if inhaled.

Chronic or Delayed Long Term This product or its components may have target organ effects

Medical Conditions Aggravated by Exposure No specific medical conditions are known which may be aggravated by exposure to this product.

Potential Environmental Effect Highly toxic to bees. Extremely toxic to aquatic and estuarine invertebrates

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SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	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.
Ingestion	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.
Inhalation	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.
Notes to Physician Treatment	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	> 93°C / > 199°F
Lower Flammability Limit	not applicable
Upper Flammability Limit	not applicable
Fire and Explosion Hazards	In the event of fire the following can be released: Hydrogen chloride (HCl) Nitrogen oxides (NOx)
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Fire Fighting Instructions	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. Wear self-contained breathing apparatus and protective suit.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.
Methods for Cleaning Up	Dike area to prevent runoff. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Clean contaminated floors and objects thoroughly, observing environmental regulations. Collect and transfer the product into a properly labeled and tightly closed container. Contaminated soil may have to be removed and disposed.
Additional Advice	Contact Repar Corporation for further assistance if necessary. For information regarding personal protective equipment, see section 8.

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
Storing Procedures	Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.
Work/Hygienic Procedures	Remove soiled clothing immediately and clean thoroughly before using again. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash thoroughly and put on clean clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Min/Max Storage Temperatures	Recommended maximum transport/storage temperature: 38°C/100°F. The 30-day storage temperature average must not exceed the recommended maximum.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection	Follow all label instructions. Eye wash facility and safety shower should be available. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Eye/Face Protection	splash goggles
Hand Protection	Chemical resistant gloves made of waterproof material such as polyethylene or polyvinyl chloride
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory Protection	No personal respiratory protective equipment normally required. 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	

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Imidacloprid	138261-41-3	OES		0.7 mg/m3
Glycerine	56-81-5	ACGIH	TWA	10 mg/m3
		OSHA Z1	PEL	5 mg/m3
		OSHA Z1	PEL	15 mg/m3
		OSHA Z1A	TWA	5 mg/m3
		OSHA Z1A	TWA	10 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	off-white
Physical State	viscous liquid suspension
Odor	Mild
pH	7.5
Density	1.12 g/cm ³ at 20 °C
Melting / Freezing Point	-6.7 °C / 19.9 °F
Water solubility	Dispersible
Viscosity	350 - 600 mPa.s at 25 °C

SECTION 10. STABILITY AND REACTIVITY

Incompatibility	no data available
Hazardous	Hydrogen chloride
Decomposition Products	Hydrogen cyanide (hydrocyanic acid) Carbon dioxide (CO ₂) Carbon monoxide Nitrogen oxides (NO _x)
Hazardous Reactions	Stable under normal conditions.

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SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertains to the active ingredient, imidacloprid.

Acute Oral Toxicity	male rat: LD50: > 4,870 mg/kg female rat: LD50: 4,143 mg/kg
Acute Dermal Toxicity	male/female combined rabbit: LD50: > 2,000 mg/kg
Acute Inhalation Toxicity	male/female combined rat: LC50: > 5.33 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. (actual) male/female combined rat: LC50: > 20 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50. (actual)
Skin Irritation	rabbit: No skin irritation.
Eye Irritation	rabbit: Minimally irritating.
Sensitization	guinea pig: Non-sensitizing.
Chronic Toxicity	Imidacloprid caused thyroid and/or liver effects in chronic dietary studies in rats and dogs.
Assessment Carcinogenicity	Imidacloprid was not carcinogenic in studies in rats and mice.
ACGIH	None.
NTP	None.
IARC	None.
OSHA	None.
Reproductive & Developmental Toxicity	REPRODUCTION: Imidacloprid was not a reproductive toxicant in a multi-generation study in rats. DEVELOPMENTAL TOXICITY: Imidacloprid is not considered a primary developmental toxicant in rats and rabbits. Developmental effects were observed at doses that caused maternal toxicity.
Neurotoxicity	Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues.
Mutagenicity	Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

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SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

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. Notify state/provincial or local authorities immediately if you observe any adverse environmental effects due to the use of this product. Do not allow to get into surface water, drains and ground water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Follow container label instructions for disposal of wastes generated during use in compliance with the product label. In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Container Disposal

Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated for Domestic Surface Transportation

FREIGHT CLASSIFICATION:

Insecticides or Fungicides, N.O.I., other than poison

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 69361-36

US Federal Regulations

TSCA list None

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 None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting None.

US States Regulatory Reporting

CA Prop65 This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of

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California to cause reproductive harm.

US State Right-To-Know None.

Ingredients

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1

Flammability - 1

Reactivity - 1

Others - none

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

Reason to Revise: New MSDS.

Revision Date: 05/01/12

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.