

## Moth Ball Packets

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Moth Ball Packets
<b>Other Means of Identification</b>	10-801, 10-801D, 10-802, 10-803, 10-861, 10-902, 10-961, 11-041, 11-060, 11-061, 11-064, 11-069, 11-101, 11-101D, 11-168, 11-169, 11-511D-30, 11-511S-30, 11-512, 20-982, 21-103, 21-109, 21-111, 21-155, 21-164, 21-165, 21-166, 29-935, 31-111DB, 31-111LINEN, 31-165DB
<b>Other Identification</b>	Freshener / Deoderizer, Fresh-O-Bowl, Cedar Scented Moth Ball Packets
<b>Recommended Use</b>	Please refer to Product label.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer/Supplier Identifier</b>	Recochem Inc., 850 Montee de Liesse, Montreal, QC, H4T 1P4, Compliance and Regulatory Department, 905-878-5544, www.recochem.com
<b>Emergency Phone No.</b>	CANUTEC, 613-996-6666, 24 Hours
<b>SDS No.</b>	17840007

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Flammable solid - Category 2; Acute toxicity (Oral) - Category 4; Skin irritation - Category 2; Eye irritation - Category 2A; Carcinogenicity - Category 2; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 2

#### Label Elements



Signal Word:  
Warning

#### Hazard Statement(s):

Flammable solid.  
Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Suspected of causing cancer.  
May cause damage to organs (skin, nervous system, blood, kidneys, liver) through prolonged or repeated exposure.

#### Precautionary Statement(s):

Prevention:  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.

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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Ground and bond container and receiving equipment.  
Use explosion-proof electrical, ventilating, and lighting equipment.  
Do not breathe dust, fume, vapours.  
Wash hands and skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, protective clothing, eye protection, face protection.

**Response:**

IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
Rinse mouth.  
IF ON SKIN: Wash with plenty of water.  
If skin irritation occurs: Get medical advice or attention.  
Call a POISON CENTRE or doctor if you feel unwell.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTRE or doctor if you feel unwell.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice or attention.  
Call a POISON CENTRE or doctor if you feel unwell.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use appropriate foam, carbon dioxide, dry chemical powder, water spray or fog to extinguish.

**Storage:**

Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up.

**Disposal:**

Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

**Note:**

100  
% of the mixture consists of ingredient(s) of unknown acute toxicity inhalation.

**Other Hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
1,4-Dichlorobenzene	106-46-7	80-100		

**Notes**

Use of Generic SDS:

If the concentration or actual concentration range of an ingredient of a particular hazardous product in the series is different from the concentration or actual concentration range disclosed for the rest of the series, either the concentration or the actual concentration range must be indicated beside that ingredient under item 3 (Composition/Information on ingredients) of the SDS. Furthermore, if any other specific information element(s) (such as flash point, numerical measure of toxicity, etc.) for a particular hazardous product in the series differs from that of the other products in the series (without affecting the classification), the information element relevant to that hazardous product must be disclosed on the SDS with an indication to which hazardous product each relates.

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## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Take precautions to prevent a fire (e.g. remove sources of ignition). Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice or attention if you feel unwell or are concerned.

#### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Brush off loose particles from skin. Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. Get medical advice or attention if you feel unwell or are concerned. If skin irritation occurs, get medical advice or attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

#### Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Quickly and gently blot or brush chemical off the face. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

#### Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

#### First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

### Most Important Symptoms and Effects, Acute and Delayed

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### Immediate Medical Attention and Special Treatment

#### Target Organs

Eyes, skin, respiratory system.

#### Special Instructions

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

#### Medical Conditions Aggravated by Exposure

Dermatitis.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

#### Unsuitable Extinguishing Media

None known.

### Specific Hazards Arising from the Product

Can ignite if strongly heated. See Section 9 (Physical and Chemical Properties) for flash point and explosive limits. Flammable solid.

In a fire, the following hazardous materials may be generated: corrosive phosgene; corrosive hydrogen chloride; irritating chemicals.

### Special Protective Equipment and Precautions for Fire-fighters

Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Evacuate downwind locations. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Conditions for Safe Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
1,4-Dichlorobenzene	10 ppm	Not established	75 ppm	110 ppm		

### Appropriate Engineering Controls

For large scale use of this product: do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Control static electricity discharges which includes bonding of equipment to ground. Use only non-combustible, compatible materials for walls, floors, ventilation system, air cleaning devices, pallets, shelving. Provide eyewash and safety shower if contact or splash hazard exists.

### Individual Protection Measures

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### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.  
Suitable materials are: nitrile rubber.

### Respiratory Protection

Not usually required when working with small quantities. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	White - colourless crystals. Particle Size: Not applicable
<b>Odour</b>	Mothballs
<b>Odour Threshold</b>	0.73 mg/m <sup>3</sup> (0.12 ppm)
<b>pH</b>	Not applicable
<b>Melting Point/Freezing Point</b>	53.1 °C (127.6 °F) (melting); Not applicable (freezing)
<b>Initial Boiling Point/Range</b>	174 °C (345 °F)
<b>Flash Point</b>	65.6 °C (150.1 °F) (closed cup)
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Flammable solid.
<b>Upper/Lower Flammability or Explosive Limit</b>	16% (upper); 2.5 - 6.2% (lower)
<b>Vapour Pressure</b>	0.98 mm Hg (0.13 kPa) at 15 °C
<b>Vapour Density (air = 1)</b>	5.08
<b>Relative Density (water = 1)</b>	1.2475 at 20 °C
<b>Solubility</b>	Practically insoluble in water; Soluble in all proportions in common organic solvents.
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	> 500 °C (932 °F)
<b>Decomposition Temperature</b>	Not applicable
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Solid
<b>Molecular Formula</b>	Not applicable
<b>Molecular Weight</b>	147.00
<b>Bulk Density</b>	Not applicable
<b>Surface Tension</b>	Not applicable
<b>Critical Temperature</b>	407.5 °C (765.5 °F)
<b>Vapour Pressure at 50 deg C</b>	Not applicable
<b>Saturated Vapour Concentration</b>	1267 - 1681 ppm

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

None known.

### Chemical Stability

Normally stable.

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### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

### Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), metals (e.g. aluminum).  
Not corrosive to metals.

### Hazardous Decomposition Products

None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Skin contact; ingestion; eye contact; skin absorption; inhalation.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
1,4-Dichlorobenzene	Not available	3790 mg/kg (female rat)	> 2000 mg/kg (rabbit)

LC50: Not applicable.

LD50 (oral): Not applicable.

LD50 (dermal): Not applicable.

### Skin Corrosion/Irritation

Human experience and animal tests show mild irritation. Repeated or prolonged exposure can irritate or burn the skin. The vapour also irritates the skin.

### Serious Eye Damage/Irritation

Human experience and animal tests show serious eye irritation. The vapour also irritates the eyes.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

Harmful based on human experience. Severe nose and throat irritation.

May be harmful based on human experience. Depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. A severe exposure can cause unconsciousness.

#### Skin Absorption

Not harmful.

#### Ingestion

May be harmful Can cause effects as described for inhalation. Irritation of the mouth, throat and stomach.

Toxic, can cause death based on human experience. If large amounts are swallowed

Harmful based on animal tests. If large amounts are swallowed harmful effects on the liver, harmful effects on the kidneys.

### Aspiration Hazard

Not known to be an aspiration hazard.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Causes Following skin contact: dermatitis.

May cause If inhaled: at high concentrations effects on the central nervous system. Blood tests may show abnormal results. A decrease in the number or size of red blood cells (anemia), harmful effects on the kidneys, harmful effects on the liver.

### Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

### Carcinogenicity

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Chemical Name	IARC	ACGIH®	NTP	OSHA
1,4-Dichlorobenzene	Group 2B	A3	Reasonably anticipated	Not Listed

Key to Abbreviations

Group 2B = Possibly carcinogenic to humans.

A3 = Animal carcinogen.

Reasonably anticipated = Reasonably anticipated human carcinogen.

#### Reproductive Toxicity

##### Development of Offspring

Conclusions cannot be drawn from the limited studies available.

##### Sexual Function and Fertility

Conclusions cannot be drawn from the limited studies available.

##### Effects on or via Lactation

No information was located.

#### Germ Cell Mutagenicity

Conclusions cannot be drawn from the limited studies available.

#### Interactive Effects

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

This section is not required by OSHA HCS 2012.

#### Ecotoxicity

##### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
1,4-Dichlorobenzene	4.2 mg/L (Pimephales promelas (fathead minnow); 96-hour)	0.7 mg/L (Daphnia magna (water flea); 48-hour)		

##### Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
1,4-Dichlorobenzene	5.6 mg/L (Pimephales promelas (fathead minnow))		Not available	

#### Persistence and Degradability

No information was located.

#### Bioaccumulative Potential

No information was located.

#### Mobility in Soil

No information was located.

#### Other Adverse Effects

There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

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## Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-Dichlorobenzene)	9	III
US DOT	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID (1,4-Dichlorobenzene)	9	III

**Environmental Hazards** Marine Pollutant

**Special Precautions** Please note: In containers of 5 L (5Kg) capacity or less this product is classified as a "Limited Quantities""Consumer Commodity" under TDG regulations.  
In containers of 5 L (5Kg) capacity or less this product is classified as a "Consumer Commodity" under DOT regulations.

### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### Proof of Dangerous Goods Classification

**Date of Classification** February 06, 2017  
**Technical Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**Classification** 9 PG III  
**Classification Method** As per regulation for 1,4-Dichlorobenzene

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

None known.

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

##### Additional USA Regulatory Lists

WARNING: Cancer - [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

### Custom Regulatory 1

Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

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## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Compliance and Regulatory Department  
**Phone No.** 905-878-5544  
**Date of Preparation** May 05, 2017  
**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).  
**Additional Information** We are committed to uphold the Industry Consumer Ingredient Communication Voluntary Initiative.  
Please send us your request by visiting our website at [www.recochem.com](http://www.recochem.com).

Ingredients present (intentionally added ingredients) at a concentration of greater than one percent (1%) shall be listed in descending order of predominance. Ingredients present at a concentration of not more than one percent shall be listed but may be disclosed without respect to order of predominance.

**Disclaimer** Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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