SAFETY DATA SHEET

Issued Date: June 1, 2015 Revision Date: June 1, 2015

SECTION I PRODUCT AND COMPANY IDENTIFICATION

Product Identifiers

Product Name: Bird-X Bird Proof Transparent Repellent
EPA Registration No.: 8254-5-56
Product Code: BP-CART
Synonyms: Polybutene
4 the Birds® BIRD REPELLENT
Product Type: Liquid

Identified uses: Repellent

Details of the Supplier of the Safety Data Sheet

Supplier Name:
Bird-X, Inc.

Supplier Address
300 N. Oakley Blvd.
Chicago, IL 60612
Website: www.bird-x.com
E-mail: sales@bird-x.com

Emergency Telephone Numbers

Company Phone Number: (312) 226-2473 (During Business Hours, 8:00am - 4:00pm CST)
Emergency Telephone: INFOTRAC: 1-800-535-5053 (Outside U.S. 1-352-323-3500)

SECTION II HAZARDS IDENTIFICATION

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture : SKIN CORRSION/IRRITATION – Category 2
ASPIRATION HAZARD – Category 1
GHS label elements :
Hazard pictograms

Signal Word : Danger
Hazard statements : Cause skin irritation.
May be fatal if swallowed or enters airways.

Precautionary statements

Prevention : Wear protective gloves. Wash hands thoroughly after handling.
Response : IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before use. If skin irritation occurs: Get medical attention.
Storage : Store locked up.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international Regulations.
Hazards not otherwise Classified : None known.

SECTION III COMPOSITION ON INGREDIENTS

Substance/mixture : Mixture
Other means of identification : Polybutene

CAS number/other identifiers

CAS number Not applicable
Product code 666N

Chemical Name	Cas No.	Weight-%
Butene, homopolymer	9003-29-6	**60-100**

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION IV FIRST AID MEASURES

Description of necessary first aid measures

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Eye Contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Skin Contact:

Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion:

Rinse mouth with water. Do NOT induce vomiting unless instructed to do so. Material can enter lungs (aspiration hazard) during swallowing or vomiting resulting in lung inflammation or other lung injury. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed:

Potential acute health effects

Eye Contact	Causes serious eye irritation.
Inhalation	No known significant effects or critical hazards.
Skin Contact	Causes skin irritation
Ingestion	May be fatal if swallowed and enters airwars. Irritating to mouth, throat and stomach.
Over-exposure signs/symptoms	
Eye Contact	Adverse symptoms may include the following: Pain or irritation Watering Redness
Inhalation	No known significant effects or critical hazards.
Skin Contact	Adverse symptoms may include the following: Irritation Redness
Ingestion	Adverse symptoms may include the following: Nausea or vomiting

Indication of any immediate medical attention and special treatment needed:

Note to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See Toxicological information (Section 11)

SECTION V FIRE-FIGHTING MEASURE

Extinguishing Media

Suitable extinguishing	Use an extinguishing agent suitable for the surrounding fire.

media	
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No specific fire or explosion hazard.
Hazardous thermal decomposition products	Decomposition products may include the following materials: Carbon dioxide Carbon monoxide
Special protective actions	No special measures are required.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION VI ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protective equipment.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Remove all sources of ignition.
If any equipment is necessary, ensure that it is non-sparking and electrically-protected.

Environmental Precautions

Prevent further release (leakage/spillage) if safe to do so.
Do not allow product to enter drains.
Do not allow to drain to environment.

Methods and Material for Containment and Cleaning Up

Ensure adequate ventilation.
Contain spillage and absorb with liquid-binding material (sand, diatomite, universal binders, vermiculite) and place in container for disposal.
Spill may also be diluted with equal volume of water and absorbed (as above) or collect with an electrically-protected vacuum cleaner or by we-brushing. Collected waste should then be placed in container for disposal.
Dispose of contaminated material according to Section 13.

Reference to Other Sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on proper disposal.

SECTION VII HANDLING AND STORAGE

Handling Precautions:	Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Keep containers closed when not in use. Do not expose containers to open flame, excessive heat, or direct sunlight. Keep away from sources of ignition. Do not smoke while using material. Take measures to prevent the buildup of electrostatic charge. Do not puncture or drop containers. Handle with care to avoid spillage on the floor (slippage). Keep material out of reach of children. Keep material away from incompatible materials. Wash thoroughly after handling.
Storage Requirements	Keep container tightly closed. Avoid inhalation of vapors or mist upon opening container. Store in a well-ventilated place. Do not store at elevated temperatures. Do not store in direct sunlight. Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, Amines, Ammonia, Halogens, reactive metals (Zinc, Aluminum) and their alloys (Brass), Alkali metals, Alkali salts, liquid Chlorine, Oxygen and Chlorates.

SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip:

Eye/Face Protection:
When using material use safety goggles, gloves, apron and vapor respirator according to HMIS PP, H. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin Protection:
Handle with gloves made from PVC, butyl-rubber, neoprene, nitrile or fluorinated-rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:
Chemically resistant gloves, apron, safety goggles, and vapor respirator are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory Protection:
Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.

Control of environmental exposure:
Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Component(s) with workplace control parameters:
Component(s): Solvent naphtha, petroleum, light arom.; 1,2,4-Trimethylbenzene; 2-Butoxyethanol; 1,3,5-Trimethylbenzene; Xylene; Cumene; Diethylbenzene

CAS No(s): 64742-95-6; 95-63-6; 111-76-2; 108-67-8; 1330-20-7; 98-82-8; 25340-17-4

USA NIOSH (TWNREL): 24 mg/m^3

USA ACGIH (TWA/TLV): 96 mg/m^3

USA ACGIH (STELITLV): 655 mg/m^3

USA OSHA (TWNPEL): 2000 mg/m^3

USA OSHA- Table Z-1 Limits for Air Contaminants (TWA): 120 mg/m^3

USA OSHA- Table Z-1 Limits for Air Contaminants (STEL): 655 mg/m^3

USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminants (TWA): 240 mg/m^3

USA Workplace Environmental Exposure Levels (WEEL): 27.45 mg/m^3

Biological occupation exposure limits:

Component: 2-Butoxyethanol
CAS-No: 111-76-2
Parameters: Butoxyacetic acid (BAA)
Biological Specimen: Urine
USA ACGIH Biological Exposure Indices: 200 mg/g

Component: Xylene
CAS-No: 1330-20-7
Parameters: Methylhippuric acids
Biological Specimen: Urine
USA ACGIH Biological Exposure Indices: 1,500 mg/g

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, light-yellow liquid		
Physical State:	Liquid	**Odor:**	Hydrocarbon-like
Odor Threshold:	Not determined	**Molecular Formula:**	MIXTURE
Particle Size:	Not determined	**Solubility**	Not determined
Spec Grav./Density:	.9095 g/ml (7.58 lbs/gal)	**Softening Point:**	Not determined
Viscosity:	Not determined	**Percent Volatile:**	**83.32%**
Sat. Vap. Conc.:	Not determined	**Heat Value:**	Not determined

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Boiling Point:	Not determined	**Freezing/Melting Pt:**	Not determined
Flammability:	(solid, gas): Flammable	**Flash Point:**	109°F (43°C)
Partition Coefficient:	Not determined	**Octanol:**	Not determined
Vapor Pressure:	(mm Hg @ 20°C): 15	**Vapor Density:**	(air = 1): >1.0
pH:	Not determined	**VOC:**	758 g/l
Evap. Rate:	(N-Butyl Acetate = 1): Not determined	**Bulk Density:**	Not determined
Molecular weight:	MIXTURE	**Auto-ignition Temp:**	Not determined
Decomp Temp:	Not determined	**UFL/LFL:**	Not determined

SECTION X STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to avoid:	Incompatibilities, flames, ignition sources.
Materials to avoid:	Strong acids, strong bases, strong oxidizing agents, strong reducing agents, Amines, Ammonia, Halogens, reactive metals (Zinc & Aluminum) and their alloys (Brass), Alkali metals, Alkali salts, liquid Chlorine, Oxygen and Chlorates.
Hazardous Decomposition:	Aldehydes, Carbon Oxides, Hydrocarbon particulate, Ketones, Nitrogen Oxides (NOx, Organic acids and Sulfur Oxides.
Hazardous Polymerization:	Will not occur

SECTION XI TOXICOLOGICAL INFORMATION

Component(s): Solvent naphtha, petroleum, light arom.; 1,2,4-Trimethylbenzene; 2-Butoxyethanol; 1,3,5-Trimethylbenzene; Xylene; Cumene; Diethylbenzene
CAS No(s): 64742-95-6; 95-63-6; 111-76-2; 108-67-8; 1330-20-7; 98-82-8; 25340-17-4

Acute Toxicity:

LD50 Oral – Rat; 470 mg/kg
NOAEL Feed – Rat: 535.8 mg/kg
LD50 Dermal – Rabbit: 220 mg/kg
LD50 Intraperitoneal – Rat: 220 mg/kg
LD50 Intravenous – Rat: 307 mg/kg
LC50 Inhalation – Rat: 2175 mg/m³ (4 h)

Skin Corrosion/Irritation: Rabbit skin – Irritating to skin (4 h).

Serious Eye Damage/Eye Irritation: Risk of serious damage to eyes.

Respiratory or Skin Sensitation: May cause respiratory irritation. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ Cell Mutagenicity: In vitro studies show positive results of mutagenicity.

Carcinogenicity: In vivo studies show positive results of kidney cancer.

This product is or contains components that are possibly classifiable as to their carcinogenicity based on their IARC, ACGIH, NTP, or OSHA classification.

IARC: 28 - Group 28: Possibly carcinogenic to humans {Cumene), 2B - Group 28: Possibly carcinogenic to humans {Amides, coco, N,N-bis(hydroxyethyl)). 3 – Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol). 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Xylene).
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity:
NOEL Teratogenicity - Oral- Rat: 50 mg/kg Effects on development were observed. The significance of these findings for humans is not certain.

Specific Target Organ Toxicity – Single Exposure: No data available.

Specific Target Organ Toxicity – Repeated Exposure: No data available.

Aspiration Hazard: May be fatal if enters airways.

Additional Information:
Component: Solvent naphtha, petroleum, light arom.; RTECS: WF3400000
Component: 1,2,4-Trimethylben:lene; RTECS: DC3325000
Component: 2-8utoxyethanol: RTECS: KJ8575000
Component: 1,2,5-Trimethylbenzene; RTECS: OX6825000
Component: Amides. coco, N,N-bis(hydroxyethyl); RTECS: GG6200000
Component: Xylene: RTECS: ZE2100000
Component: Cumene; RTECS: GR8575000
Component: Diethylbenzene; RTECS: CZ5600000

SECTION XII ECOLOGICAL INFORMATION

Component(s): Solvent naphtha, petroleum, light arom.; 1,2,4-Trimethylbenzene; 2-Butoxyethanol; 1,3,5-Trimethylbenzene; Xylene; Cumene; Diethylbenzene
CAS No(s): 64742-95-6; 95-63-6; 111-76-2; 108-67-8; 1330-20-7; 98-82-8; 25340-17-4

Toxicity:
Toxicity to fish:
LC50 - Oncorhynchus mykiss (Rainbow Trout): 4.8 mg/l (96 h)
LC50 - Lepomis macrochirus (Bluegill Sunfish): 1.0 mg/l (96 h)
LC50 - Carassius auratus (Goldfish): 12.52 mg/l (96 h)
LC50 - Branchydanio rerio: 3.6 mg/l (96 h)
LC50 - Morone saxatillis: 2 mg/l (96 h)
Mortality LOEC – Pimephales promelas (Fathead Minnow): 2.0 mg/l (144 h)

Mortality NOEC – Pimephales promelas (Fathead Minnow): 1.8 mg/l (144 h)
Flow-through test LC50 – Pimephales Promelas (Fathead Minnow): 7.72 mg/l (96 h)
Semi-static test LC50 – Oncorhynchus mykiss (Rainbow Trout): 0.673 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:
EC50 - Daphnia magna (Water Flea): 4.2 mg/l (24 h)
EC50 - Daphnia magna (Water Flea): 12.2 – 17.0 mg/l (48 h)
EC50 - Daphnia: 2.14 mg/l (48 h)
Mortality NOEC - Daphnia magna (Water Flea): 10.0 mg/l (144 h)
Mortality LOEC - Daphnia magna (Water Flea): 20.0 mg/l (144 h)
Immobilization EC50 - Daphnia magna (Water Flea): 6 mg/l (48 h)
Static test EC50 - Daphnia magna (Water Flea): 2.01 mg/l (48 h)

Toxicity to algae:
EC50 - Pseudokirchneriella subspicatus (Green Algae): 2.6 mg/l (72 h)
EC50 - Pseudokirchneriella subspicatus (Green Algae): 72 mg/l (14 d)
Growth inhibition LOEC - Pseudokirchneriella subspicatus: 16.0 mg/l (96 h)
Growth inhibition NOEC - Pseudokirchneriella subspicatus: 8.0 mg/l (96 h)
Static test EC50 - Pseudokirchneriella subspicatus (Selenastrum capricornutum): 1.21 mg/l (72 h)

Toxicity to bacteria
Respiration Inhibition NOEC - Sludge Treatment: >1,000 mg/l (3 h)

Persistence and Degradability:
Not readily biodegradable.

Bioaccumulative potential:
Most of the hydrocarbon blocks comprising Naphtha Solvents have a Log_{KOW} >3, indicating that these constituents have a potential to bioaccumulate.

Mobility in Soil:
No data available.

Results of PBT and vPvB assessment:
Not required/conducted.

Other Adverse Effects:
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

SECTION XIII DISPOSAL CONSIDERATIONS

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Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of unused product.

SECTION XIV TRANSPORT INFORMATION

DOT Class: Flammable Liquid (3) #3
UN#: UN 1993, Class 3, Proper Shipping Name: Flammable Liquids, n.o.s (Aromatic Petroleum naphtha)

Agency	Proper Shipping Name	UN Number	Hazard Class	Packing Group	ERG #	Marine Pollutant	Poison Inhalation Hazard(s)	EMS-No
DOT	Flammable Liquids, n.o.s (Aromatic Petroleum naphtha)	UN1993	**3**	**III**	**128**	**Yes**	**No**	
DOT Non-Bulk	Non-regulated material, liquid							
IATA	Flammable liquids, n.o.s. (Aromatic Petroleum Naphtha)	UN1993	3	**III**	**128**	**Yes**		
IMDG	Flammable liquids, n.o.s. (Aromatic Petroleum Naphtha)	UN1993	3	**III**		**Yes**		**F-E, S-E**

SECTION XV REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Solvent naphtha, petroleum, light arom. (64742956 30-40%) NJHS, PA PROP65, TSCA

*1,2,4-Trimethylbenzene (95636 20-30%) MASS, NJHS, PA SARA311-312, SAEA313, TSCA, TXAIR

*Trade Secret (None 20-35%) MA, NJHS, PA, SARA311/312 TSCA

*1,3,5-Trimethylbenzene (108678 5-10%) MASS, NJHS, PA, SARA31//312, TSCA

*2-Butoxyethanol (111762 10-15%) HAP, MASS, NJHS, OSHAWAC, PA SARA311/312, SARA313, TSCA, TXAIR

*Amides, coco, N,N-bis(hydroxyethyl) (68603429 1.5-5%) PROP65, SARA311/312, TSCA

*Xylene (1330207 1.5-5%) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TCHWL

*Cumene (98828 0.4-0.5%) CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, PROP65, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

*Diethylbenzene (25340174 1.5-5%) NJHS, PA, SARA311/312, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
HAP = Hazardous Air pollutants
MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-know Hazardous Substances
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-T0-Know List of Hazardous Substances
PROP65 = CA Prop 65
SARA313 = SARA 313 Title III Toxic Chemicals
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)

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TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level
TXHWL = TX Hazardous Waste List

SECTION XVI OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that we believe to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of our control, Bird-X, Inc. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.