

## MATERIAL SAFETY DATA SHEET 11054 SIMPLE SOLUTION DOG - CAT REPEL

DATE OF ISSUE: 10/28/2002  
SUPERCEDES: 11/20/1997

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SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms: METHYL NONYL KETONE  
Trade Name & Synonyms: 11054 SIMPLE SOLUTION DOG - CAT REPEL

Chemical Family: KETONE  
Formula Mixture: X

Manufacturer's Name:  
THE BRAMTON COMPANY

Address:  
P.O. BOX 655450  
DALLAS, TX 752655450  
Prepared By: C Williamson/Chemist  
Product Code Number: B862  
Emergency Phone Number: 800-424-9300

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SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS:

Chemical Name (Ingredients): METHYL NONYL KETONE  
Hazard: IRR/SENS  
TLV: N/E 1  
PEL: N/E 2  
STEL: N/E  
CAS#: 112-12-9

Chemical Name (Ingredients): ISOBUTANE  
Hazard: ASPHYX  
TLV: N/E 1  
PEL: N/E 2  
STEL: N/E  
CAS#: 75-28-5

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SECTION III - PHYSICAL DATA

Boiling Point (f): >212°  
Specific Gravity (H2O=1): 0.99-1.01  
Vapor Pressure (MM HG): 53psig  
Color: WHITE  
Vapor Density (Air=1): 0.6  
Odor: PUNGENT  
PH @ 100%: >6.6  
Clarity: HAZY  
Volatile by Volume: 98  
Evaporation Rate (BU A/C=1): <1  
H2O Solubility: EMULSIFIABLE  
Viscosity: NON-VISCOUS

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SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: >200°F / CLOSED CUP

Flammable Limits: ISOBUTANE

LEL: 1.8%

UEL:8.4%

Extinguishing Media:

Foam: X Alcohol Foam: X CO2: X

Dry Chemical: X Water Spray: X Other:

Special Fire Fighting Procedures:

FIREFIGHTERS SHOULD WEAR A SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:

AT TEMPERATURES ABOVE 130°F, CONTAINERS MAY RUPTURE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT BURSTING. FLAME EXTENSION IS 0 INCHES, BURNBACK IS 0 INCHES.

Aerosol Level (NFPA 30B): 1

NFPA 704 Hazard Rating:

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Health: 1 Flammability: 1 Instability: 0 Special:

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#### SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:

NOT ESTABLISHED. 1.

Effects of Overexposure:

-Acute (Short Term Exposure)

EYE CONTACT: MAY CAUSE IRRITATION SEEN AS STINGING, TEARING AND REDNESS.

SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS; MAY CAUSE AN ALLERGIC SKIN REACTION.

INHALATION: MIST MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. AT LOW LEVELS, NO HARMFUL EFFECTS ARE EXPECTED. AT HIGH VAPOR CONCENTRATIONS, INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS DROWSINESS, WEAKNESS, UNCONCIOUSNESS AND POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM DEPRESSION. MAY BE FATAL IF SUFFICIENT CONCENTRATIONS ARE INHALED.

INGESTION: INGESTION OF EXTREMELY LARGE QUANTITIES MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA.

-Chronic (Long Term Exposure)

MAY CAUSE SKIN SENSITIZATION IN SOME INDIVIDUALS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS.

TARGET ORGANS: BLOOD-FORMING ORGANS.

Primary Routes of Entry: Inhalation: X Ingestion: Absorption: X

Emergency and First Aid Procedures:

-Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

-Eye Contact:

RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Skin Contact:

WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL

ATTENTION IF IRRITATION DEVELOPS.

-Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

-Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

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SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC: No

NTP: No

OSHA: No

ACGIH: No

OTHER: No

METHYL NONYL KETONE (2-UNDECANONE)

ORL-RAT LD50: 5000 MG/KG 3.

ORL-MUS LD50: 3880 MG/KG 3.

SKN-RBT LD50: >5 G/KG 3.

ISOBUTANE

IHL-RAT LC50: 57 PPH/15M

BEHAVIORAL TREMORS, CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD 3.

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SECTION VII - REACTIVITY DATA

Stability:

Stable: X

Unstable:

Conditions to Avoid: AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE.

Hazardous Decomposition Products:

OXIDES OF CARBON.

Hazardous Polymerization:

May Occur: Will Not Occur: X

Conditions to Avoid: N/A

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SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, WEAR APPROPRIATE PROTECTIVE CLOTHING, VENTILATE THE AREA, ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. USE CARE AS SPILLS MAY BE SLIPPERY.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

Neutralizing Agent:

N/A

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SECTION IX - SPECIAL PROTECTION INFORMATION

## Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE MISTS OR VAPORS.

## Respiratory Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS OF USE.

## Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

## Eye Protection:

SAFETY GLASSES IF THE METHOD OF APPLICATION PRESENTS THE LIKELIHOOD OF EYE CONTACT.

## Other Protection:

WEAR GENERAL-DUTY WORK CLOTHES AND SHOES.

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SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature:      Indoors: X                      Outdoors:                      Heated:  
Refrigerated:

Minimum Temperature: 32°F                      Maximum Temperature: 130°F

## Precautions to be taken in Handling and Storing:

STORE IN A COOL, DRY PLACE INACCESSIBLE TO CHILDREN AND PETS, AWAY FROM HEAT AND OPEN FLAME.

## Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

CONTENTS UNDER PRESSURE. DO NOT USE OR STORE NEAR HEAT, HOT SURFACES, SPARKS OR OPEN FLAME. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER. EXPOSURE TO TEMPERATURES ABOVE 130°F/54°C MAY CAUSE BURSTING. NOTE: VEHICLE INTERIORS OFTEN EXCEED 130°F/54°C DURING WARM MONTHS.

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SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper % Limit
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Those Ingredients listed above are subject to the reporting requirements of 313 of Title III and of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

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SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2002.

2. OSHA PEL.

3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2002.

ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

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IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE, CARC:CARCINOGENIC,

TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE CLOSED CUP, LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT, NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, IARC:INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT:MUTAGENIC, ASPHYX:ASPHYXIAN, PNOS:PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL:ORAL, IHL:INHALATION, HMN:HUMAN  
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