

SPOT SHOT**MATERIAL SAFETY DATA SHEET (MSDS)****PRODUCTS**

A DIVISION OF HEARTLAND CORPORATION

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: SPOT SHOT CARPET STAIN REMOVER
 PRODUCT CLASS: AEROSOL CLEANING AID
 DATE PREPARED: 01/01/91
 ITEM # : 1190-1-10

HMIS RATING

HEALTH 3
 FLAMMABILITY 1
 REACTIVITY 1
 P.P. EQUIP B

**SECTION 2 - HAZARDOUS INGREDIENTS**

INGREDIENT	CAS #	ACGIH	OSHA	OTHER	%OPTIONAL
2 - BUTOXYETHANOL	111-76-2		25 PPM		25
PROPANE / ISOBUTANE	68476-86-8		900 PPM		< 10
NONIONIC EMULSIFIER	N/A		5 MG/M3		< 10

THIS MSDS WAS PREPARED IN ACCORDANCE WITH CFR 29 1910.1200 AND SARA III.

SECTION 3 - PHYSICAL DATA

BOILING POINT : -43 F PROPELLANT
 VAPOR PRESSURE : 52 PSIG @ 70 F
 VAPOR DENSITY : HEAVIER THAN AIR
 SPECIFIC GRAVITY : .976
 VISCOSITY : THIN
 ODOR : LIGHT CITRUS

PERCENT VOLATILE : 20 %
 VOC (GRAM/LITRE) : 299
 EVAPORATION RATE: SLOWER THAN B-ACETAT
 SOLUBILITY IN WATER : COMPLETE
 APPEARANCE : CLEAR LIQUID

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT : -156 F PROPELLANT 150 F CONCENTRATE
 EXPLOSIVE LIMITS LOWER : 1.8 % UPPER : 9.5 %
 EXTINGUISHING MEDIA : FOAM, CO2, DRY CHEMICAL. WATER FOG MAY BE USED TO HELP COOL THE CONTAINERS.

HAZARDOUS DECOMPOSITION BYPRODUCTS : OZIDES OF CARBON OR NITROGEN

FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS. WATER FOG MAY BE USED TO HELP COOL THE CANS TO PREVENT OVERPRESSURIZATION AND EXPLOSION. EXPOSURE TO TEMPERATURES ABOVE 180 F MAY CAUSE CANS TO EXPLODE. VAPORS ARE HEAVIER THAN AIR AND WILL TRAVEL ALONG THE GROUND TO LOW LYING AREAS. DYKE THE RUNOFF FROM THE FIRE AND HANDLE AS HAZARDOUS WASTE UNLESS OTHERWISE INSTRUCTED BY THE FIRE MARSHALL OR LOCAL ENVIRONMENTAL AGENCY.

SECTION 5 - REACTIVITY DATA

STABILITY: NORMALLY STABLE
 INCOMPATIBILITY: EXCESSIVE HEAT, SOURCES OF IGNITION, STRONG OXIDIZERS
 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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SECTION 6 - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL (TLV): 25 PPM (SKIN) 2 - BUTOXYETHANOL

ACUTE EFFECTS--

EYES: DIRECTLY SPRAYING INTO EYES CAN CAUSE SEVERE PAIN, IRRITATION, BLURRED VISION OR CORNEAL OPACIFICATION.

SKIN: PROLONGED SATURATED CONTACT WITH SKIN WITHOUT RINSING CAN CONTRIBUTE TO EXCEEDING THE TLV. REPEATED CONTACT WITHOUT RINSING SKIN CAN CAUSE DEFATTING.

BREATHING: IF NOT USED IN VENTILATED AREA, EXCESSIVE INHALATION OF THE VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION. INTENTIONALLY CONCENTRATING AND INHALING VAPORS CAN CAUSE FATIGUE, HEADACHES OR DEATH.

INGESTION: DELIBERATELY INGESTING THE LIQUID CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

CHRONIC (LONG TERM) EFFECTS--

TARGET ORGAN/SYSTEMATIC EFFECTS: EXTREME OVEREXPOSURE TO THE RAW MATERIALS IN THIS PRODUCT HAVE BEEN REPORTED TO EFFECT THE FOLLOWING IN LAB ANIMALS: ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE, BLOOD ABNORMALITIES.

FIRST AID--

EYES: FLUSH WITH FRESH RUNNING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

SKIN: WASH WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

BREATHING: REMOVE VICTIM TO FRESH AIR. IF DISCOMFORT PERSISTS, SEEK MEDICAL AID.

INGESTION: DO NOT INDUCE VOMITING. KEEP VICTIM QUIET AND SEEK MEDICAL ATTENTION IMMEDIATELY FOR TREATMENT GUIDELINES.

SECTION 7 - PRECAUTIONS FOR STORAGE AND DISPOSAL

SMALL SPILLS: WEAR PROTECTIVE CLOTHING WHEN HANDLING ANY SPILL. ABSORB WITH INERT MATERIAL AND DISPOSE IN TRASH.

LARGE SPILLS: DYKE AREA TO PREVENT MATERIAL FROM ENTERING GROUND WATER SYSTEMS. CAREFULLY VENTILATE THE AREA. TRANSFER SPILLED MATERIAL TO CONTAINERS DESIGNED FOR THIS PURPOSE. NOTIFY ANY REQUIRED AGENCIES PER EPA AND SARA III GUIDELINES IF NECESSARY. DISPOSE OF THE WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

STORAGE PRECAUTIONS: STORE BETWEEN 40F AND 160F. DO NOT USE DAMAGED OR DEFORMED CANS. STORE AWAY FROM HEAT SOURCES. KEEP OUT OF REACH OF CHILDREN.

SECTION 8 - TRANSPORTATION AND REGULATORY INFORMATION

PROPER SHIPPING NAME: COMPRESSED GAS N.O.S.

DOT CLASSIFICATION: FLAMMABLE GAS UN-1954

DOT PLACARD/LABEL: CONSUMER COMMODITY ORM-D

PROPELLANT: PROPANE/ISOBUTANE

CONTAINER SIZE: 14 OZ. CASE SIZE: 12 CANS

CONTAINER WEIGHT: 1.21 LB. CASE WEIGHT: 14.5 LBS.

SARA III REPORTABLE QUANTITY: 1000 LBS.- NFPA 30B CLASSIFICATION: LEVEL 1

SECTION 9 - HANDLING PRECAUTIONS

VENTILATION: GENERAL VENTILATION SHOULD BE ADEQUATE WITH NORMAL USE. IF USING IN CONFINED AREAS, PROVIDE ADDITIONAL VENTILATION OR EXHAUST TO MAINTAIN LOW AIRBORNE CONCENTRATION.

RESPIRATORY PROTECTION: WEAR A NIOSH/MSA APPROVED RESPIRATOR IF TLV IS EXCEEDED.

SKIN PROTECTION: WEAR CHEMICAL-RESISTANT GLOVES IF PROLONGED CONTACT.

EYE PROTECTION: WEAR CHEMICAL GOGGLES TO AVOID THE POSSIBILITY OF DIRECT EYE CONTACT.