



MATERIAL SAFETY DATA SHEET

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I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: Silicone Spray
HMIS Ratings: Health: Slight(1)
 Flammability: Moderate(2)
 Instability/Reactivity: Minimal(0)

NFPA Ratings: Health: Slight(1)
 Flammability: Extreme(4)
 Instability/Reactivity: Minimal(0)
 Personal Protective Equipment: A

Other:

EMERGENCY OVERVIEW: AEROSOL.
 HARMFUL IN CONTACT WITH EYES. PROLONGED EXPOSURE MAY CAUSE
 CHRONIC EFFECTS.
 CONTENTS UNDER PRESSURE.
 PRESSURIZED CONTAINER MAY EXPLODE WHEN EXPOSED TO HEAT OR
 FLAME.

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
2-BUTOXYETHANOL	111-76-2	3 - 5	20 PPM	50 PPM			
Notes							
ISOPROPYL ALCOHOL	67-63-0	3 - 5	200 PPM 400 PPM	400 PPM			
Notes							
PROPANE	74-98-6	3 - 5	1000 PPM	1000 PPM			
Notes							
N-BUTANE	106-97-8	3 - 5	1000 PPM				
Notes							
NON-HAZARDOUS AND OTHER COMPONENTS BELOW REPORTABLE LEVELS		80 - 90					
Notes							

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes:

CONTACT MAY IRRITATE OR BURN EYES. EYE CONTACT MAY RESULT IN CORNEAL INJURY.

Skin:

THIS PRODUCT MAY BE HARMFUL IF IT IS ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS (RASH).

Ingestion: EXPOSURE BY INGESTION OF AN AEROSOL IS UNLIKELY. INGESTION BY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. MAY CAUSE DELAYED LUNG DAMAGE.

Inhalation: INTENTIONAL MISUSE BY CONCENTRATING AND INHALING THE PRODUCT CAN BE HARMFUL OR FATAL. PROLONGED INHALATION MAY BE HARMFUL.

IV. FIRST AID MEASURES

Eyes: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. GET IMMEDIATELY MEDICAL ATTENTION.

Skin: IMMEDIATELY TAKE OFF ALL CONTAMINATED CLOTHING. WASH OFF WITH WARM WATER AND SOAP. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

Ingestion: RINSE MOUTH. GET MEDICAL ATTENTION IMMEDIATELY. DO NOT INDUCE VOMITING WITHOUT MEDICAL ADVICE. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD TO REDUCE RISK OF ASPIRATION. DO NOT USE MOUTH-TO-MOUTH METHOD IF VICTIM INGESTED THE SUBSTANCE. INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL ADVICE.

Inhalation: MOVE TO FRESH AIR. CALL A PHYSICIAN IF SYMPTOMS DEVELOP OR PERSIST.

Other: NOTE TO PHYSICIANS
SYMPTOMS MAY BE DELAYED.
GENERAL ADVICE
CALL A PHYSICIAN IF SYMPTOMS DEVELOP OR PERSIST.

V. FIRE FIGHTING MEASURES

Flash Point: -156°F (-104.4°C) ESTIMATED.

Extinguishing Agents: LARGE FIRES: WATER SPRAY, FOG OR REGULAR FOAM.
SMALL FIRES: DRY CHEMICAL, CO₂, WATER SPRAY OR REGULAR FOAM.
UNSUITABLE EXTINGUISHING MEDIA
DO NOT USE A SOLID WATER STREAM AS IT MAY SCATTER AND SPREAD FIRE.

Unusual Fire or Explosion Hazards: CONTAINERS MAY EXPLODE WHEN HEATED. VAPOR OR GAS MAY SPREAD TO DISTANT IGNITION SOURCES AND FLASH BACK. RUNOFF TO SEWER MAY CAUSE FIRE OR EXPLOSION HAZARD.

Fire Fighting Procedures: IN THE EVENT OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES. WEAR FULL PROTECTIVE CLOTHING, INCLUDING HELMET, SELF-CONTAINED POSITIVE PRESSURE OR PRESSURE DEMAND BREATHING APPARATUS, PROTECTIVE CLOTHING AND FACE MASK. IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN A FIRE, ISOLATE FOR 800 METERS (1/2 MILE) IN ALL DIRECTIONS; ALSO CONSIDER INITIAL EVACUATION FOR 800 METERS (1/2 MILE) IN ALL DIRECTIONS. ALWAYS STAY AWAY FROM TANKS ENGULFED IN FLAME. FIGHT FIRE FROM MAXIMUM DISTANCE OR USE UNMANNED HOSE HOLDERS OR MONITOR NOZZLES. WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICES OR ANY DISCOLORATION OF TANKS DUE TO FIRE. CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP. FOR MASSIVE FIRE, USE UNMANNED HOSE HOLDERS OR MONITOR NOZZLES; IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: METHODS FOR CONTAINMENT
ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). STOP LEAK IF YOU CAN DO SO WITHOUT RISK. MOVE THE CYLINDER TO A SAFE AND OPEN AREA IF THE LEAK IS IRREPARABLE. PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS.
METHODS FOR CLEAN UP
SMALL SPILLS: WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN CONTAMINATED SURFACES THOROUGHLY.

Other: PERSONAL PRECAUTIONS
DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. VENTILATE CLOSED SPACES BEFORE ENTERING. KEEP UNNECESSARY PERSONNEL AWAY.

VII. HANDLING AND STORAGE

Other: HANDLING
PRESSURIZED CONTAINER: DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. DO NOT USE IF SPRAY BUTTON IS MISSING OR DEFECTIVE. USE ONLY WITH ADEQUATE VENTILATION. DO NOT GET THIS MATERIAL IN CONTACT WITH EYES. DO NOT GET THIS MATERIAL IN CONTACT WITH SKIN. AVOID PROLONGED EXPOSURE.
STORAGE
LEVEL 1 AEROSOL.
CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR CRUSH. THE PRESSURE IN SEALED CONTAINERS CAN INCREASE UNDER THE INFLUENCE OF HEAT. KEEP AWAY FROM HEAT, SPARKS, AND FLAME. AVOID EXPOSURE TO LONG PERIODS OF SUNLIGHT. STORE IN COOL PLACE. KEEP CONTAINER TIGHTLY CLOSED. KEEP CONTAINER DRY. KEEP OUT OF THE REACH OF CHILDREN. USE CARE IN HANDLING/STORAGE.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: WEAR CHEMICAL GOGGLES.

Skin: PROTECTIVE GLOVES.

Respiratory: WHEN WORKERS ARE FACING CONCENTRATIONS ABOVE THE EXPOSURE LIMIT THEY MUST USE APPROPRIATE CERTIFIED RESPIRATORS.

Engineering: USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

Other: GENERAL HYGIENE CONSIDERATIONS
WHEN USING DO NOT SMOKE. AVOID CONTACT WITH EYES. AVOID CONTACT WITH SKIN. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: YELLOW

Boiling Point: 206.6°F (97.2°C) ESTIMATED.

pH: 10 - 11

Solubility in Water: COMPLETELY

Specific Gravity: 0.962 ESTIMATED

Vapor Pressure: 60 - 70 PSIG @ 70°F

Physical State: LIQUID; FORM: AEROSOL

FLAMMABILITY (HOC): 3.65 KJ/G ESTIMATED

Other: FLASH BACK: NO

X. STABILITY AND REACTIVITY

Stability: RISK OF IGNITION. STABLE AT NORMAL CONDITIONS.

Hazardous Decomposition MAY INCLUDE OXIDES OF NITROGEN.

Products:

Conditions To Avoid: HEAT, FLAMES AND SPARKS.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data: ACUTE EFFECTS:
ACUTE LD50: 8764 MG/KG ESTIMATED, RAT, ORAL
ACUTE LD50: 4355 MG/KG ESTIMATED, RAT, DERMAL.
ACUTE LC50: 39 MG/L/4H ESTIMATED, RAT, INHALATION.

Special Hazard Information:

SENSITIZATION
NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.
LOCAL EFFECTS
CONTACT MAY IRRITATE OR BURN EYES. LIVER TOXICITY. BLOOD DISORDER
MAY OCCUR AFTER INGESTION. COMPONENTS OF THE PRODUCT MAY BE
ABSORBED INTO THE BODY THROUGH THE SKIN.
CHRONIC EFFECTS
HAZARDOUS BY OSHA CRITERIA. THIS PRODUCT MAY BE HARMFUL IF IT IS
ABSORBED THROUGH THE SKIN. REPEATED ABSORPTION MAY CAUSE
DISORDER OF CENTRAL NERVOUS SYSTEM, LIVER, KIDNEYS AND BLOOD.
PROLONGED OR REPEATED EXPOSURE MAY CAUSE LUNG INJURY.
PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS.
2-BUTOXY ETHANOL MAY BE ABSORBED THROUGH THE SKIN IN TOXIC
AMOUNTS IF CONTACT IS REPEATED AND PROLONGED. THESE EFFECTS HAVE
NOT BEEN OBSERVED IN HUMANS.
SUBCHRONIC EFFECTS
KIDNEY INJURY MAY OCCUR. BLOOD DISORDER MAY OCCUR AFTER
PROLONGED INHALATION. BLOOD DISORDER MAY OCCUR AFTER PROLONGED
SKIN CONTACT.
NEUROLOGICAL EFFECTS
HAZARDOUS BY OSHA CRITERIA.
MUTAGENICITY
NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.
REPRODUCTIVE EFFECTS
NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.
TERATOGENICITY
NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.
EPIDEMIOLOGY
HAZARDOUS BY OSHA CRITERIA.

Other: SYMPTOMS MAY BE DELAYED.

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: COMPONENTS OF THIS PRODUCT HAVE BEEN IDENTIFIED AS HAVING
POTENTIAL ENVIRONMENTAL CONCERNS.

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: CONSULT AUTHORITIES BEFORE DISPOSAL. CONTENTS UNDER PRESSURE.
INCINERATE THE MATERIAL UNDER CONTROLLED CONDITIONS IN AN
APPROVED INCINERATOR. DO NOT ALLOW THIS MATERIAL TO DRAIN INTO
SEWERS/WATER SUPPLIES. IF DISCARDED, THIS PRODUCT IS CONSIDERED A

RCRA IGNITABLE WASTE, D001. DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

RCRA Class: D001: WASTE FLAMMABLE MATERIAL*

Other: *WITH A FLASH POINT <140°F

XIV. TRANSPORT INFORMATION

Proper Shipping Name: CONSUMER COMMODITY

Hazard Class Number and Description: ORM-D

Description:

Other: PACKAGING EXCEPTIONS: 156,306
PACKAGING NON BULK: 156,306
PACKAGING BULK: NONE

Air Transport: NOT REGULATED AS HAZARDOUS GOODS.

Proper Shipping Name: AEROSOLS, FLAMMABLE

Hazard Class Number and Description: 2.1

Description:

UN Identification Number: 1950

Packing Group: LTD QTY

Hazard Label(s) Required: 2.1

Sea Transport: NOT REGULATED AS HAZARDOUS GOODS.

UN Identification Number: 1950

Proper Shipping Name: AEROSOLS

Hazard Class Number and Description: 2.1

Description:

Packing Group: LTD QTY

Hazard Label(s) Required: NONE

XV. REGULATORY INFORMATION

TSCA Status: ALL COMPONENTS ARE ON THE U.S. EPA TSCA INVENTORY LIST.

EPA Sara Title III Chemical Listings: THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. BR> OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA):

29 CFR 1910.1200 HAZARDOUS CHEMICAL: YES.

CERCLA (SUPERFUND) REPORTABLE QUANTITY: NONE

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

HAZARD CATEGORIES:

IMMEDIATE HAZARD: NO

DELAYED HAZARD: YES

FIRE HAZARD: YES

PRESSURE HAZARD: YES

REACTIVITY HAZARD: NO

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE: NO.

SECTION 311 HAZARDOUS CHEMICAL: YES.

Pennsylvania: U.S.-PENNSYLVANIA-RTK (RIGHT TO KNOW) LIST
2-BUTOXYETHANOL: CAS# 111-76-2; PRESENT.
ISOPROPYL ALCOHOL: CAS# 67-63-0; ENVIRONMENTAL HAZARD.
N-BUTANE: CAS# 106-97-8; PRESENT.
PROPANE: CAS# 74-98-6; PRESENT.

Other:

INVENTORY STATUS:

COUNTRY(S) OR REGION / INVENTORY NAME / ON INVENTORY (YES/NO)*
CHINA / INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC) /
YES.

EUROPE / EUROPEAN INVENTORY OF NEW AND EXISTING CHEMICALS
(EINECS) / YES.

EUROPE / EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS) / NO.

JAPAN / INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS) /
NO.

KOREA / EXISTING CHEMICALS LIST (ECL) / YES.

UNITED STATES AND PUERTO RICO / TOXIC SUBSTANCES CONTROL ACT
(TSCA) INVENTORY / YES*.

*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY
WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING
COUNTRY(S).

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION.
NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND
SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD
REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE
WHETHER
THEY ARE APPROPRIATE.