

ITEM: 3LA89 - FOAM INSULATING 12 OZ

ORDER: 0003747472

LP NUMBER: U815563005

MSDS: A6951

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

SAFETY DATA SHEET - A6951

Associated Grainger Items
3LA89

ADVANCED MATERIALS - SILICONES

MATERIAL SAFETY DATA SHEET

VERSION: 1.1

05/18/2004

3E32200 12OZ-SPACE INVADER FOAM-CAN (0.750LBS-0.340KG)
POLYURETHANE FOAM SEALANT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY:
3ESA FUELESS PLANT
10950 S. PIPELINE RD
FUELESS TX 76040

REVISED: 05/18/2004

PREPARED BY: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS

CHEMTREC: 1-800-424-9300

CHEMICAL FAMILY/USE: ADHESIVE

FORMULA: MIXTURE

HMIS:
HEALTH 2
FLAMMABILITY 4
REACTIVITY 1
PROT. EQUIPM.

NFPA:
HEALTH 2
FLAMMABILITY 4
REACTIVITY 1
SPECIAL HAZ.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Table with 4 columns: PRODUCT COMPOSITION, CAS REG NO., WGT. %, and description. Includes Chlorodifluoromethane, Isocyanic acid, and Diphenylmethane diisocyanate.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING!

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. CONTENTS UNDER PRESSURE. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. VISCIOUS FOAM; SOLID UPON CURING.

FORM: SOLID

COLOR: OFF-WHITE

ODOR: FLUOROCARBONS

POTENTIAL HEALTH EFFECTS:

INGESTION:

DO NOT INGEST!

INGESTION OF UNCURED PRODUCT CAN BE HARMFUL OR FATAL. CAN CAUSE SEVERE IRRITATION AND CORROSION OF MOUTH, THROAT, AND GASTROINTESTINAL TRACT. SYMPTOMS INCLUDE NAUSEA, STOMACH PAIN, DIARRHEA, ABDOMINAL CRAMPS AND SPASMS, BLOODY WATERY STOOLS, AND VOMITING OF HARD WHITISH FRAGMENTS OF POLYMERIZED ISOCYANATE. PRODUCT MAY CURE IN GASTROINTESTINAL TRACT AND OBSTRUCT THE PASSAGE OF FOOD AND AIR. OTHER EFFECTS INCLUDE SLOWED OR IRREGULAR HEARTBEAT, METABOLIC ACIDOSIS, BLOOD DISTURBANCES, CENTRAL NERVOUS SYSTEM EFFECTS, COMA, AND DEATH.

SKIN:
THIS PRODUCT CONTAINS INGREDIENTS WHICH MAY PRODUCE AN ALLERGIC SKIN REACTION. IT SHOULD BE TREATED AS A SKIN SENSITIZER. WILL BOND SKIN SURFACES TOGETHER. CONTACT MAY CAUSE SEVERE IRRITATION WITH REDNESS, PAIN, AND

INHALATION:
HARMFUL IF INHALED. INHALATION OF VAPORS OR GAS CAN CAUSE RESPIRATORY TRACT IRRITATION, BREATHLESSNESS, WHEEZING, COUGHING, DECREASED PULMONARY FUNCTION, HEADACHE, NAUSEA, VOMITING, CHEST PAIN, AND IRREGULAR HEARTBEAT. CENTRAL NERVOUS SYSTEM DEPRESSION CAN OCCUR WITH DISORIENTATION, DRUNKENNESS, SUFFOCATION, CONVULSIONS, COMA, AND DEATH. RESPIRATORY AND

INFLAMMATION OF THE LUNGS, AND PULMONARY EDEMA WHICH MAY BE FATAL. SYMPTOMS MAY BE DELAYED FOR SEVERAL HOURS.

EYES:
WILL BOND EYELIDS TOGETHER. CONTACT WITH PRODUCT, VAPORS, OR PROPELLANT GAS CAN BE IRRITATING AND DAMAGING TO THE EYE.

MEDICAL CONDITIONS AGGRAVATED:
RESPIRATORY DISORDER ALLERGY APPLIES IN UNCURED STATE. CENTRAL NERVOUS SYSTEM DISORDERS. CARDIOVASCULAR DISORDERS. SKIN DISORDERS.

SUBCHRONIC (TARGET ORGAN):
RESPIRATORY SYSTEM; SKIN; CENTRAL NERVOUS SYSTEM; IMMUNE SYSTEM; EYES

CHRONIC EFFECTS / CARCINOGENICITY:
THIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT 0.1% OR MORE IS NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY NTP, IARC, OR OSHA.

ROUTES OF EXPOSURE: INHALATION; DERMAL

OTHER: NONE KNOWN.

4. FIRST AID MEASURES

INGESTION: CALL A PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY.

SKIN:
PRODUCT ADHERES TO SKIN. REMOVE CONTAMINATED CLOTHING. WASH IMMEDIATELY WITH ABRASIVE SOAP. IF PRODUCT CANNOT BE REMOVED, OR ALLERGIC REACTION WITH REDDENING AND BLISTERING DEVELOPS, GET IMMEDIATE MEDICAL ATTENTION.

INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION USING A BARRIER DEVICE. BECAUSE OF CHEMICAL PROPERTIES, DO NOT USE MOUTH-TO-MOUTH CONTACT. OBTAIN MEDICAL ATTENTION.

EYES:
IMMEDIATE MEDICAL ATTENTION IS REQUIRED FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

NOTE TO PHYSICIAN:

5. FIRE-FIGHTING MEASURES

FLASH POINT:
426.66 DEG. C
800.60 DEG. F
METHOD: UNKNOWN

IGNITION TEMPERATURE: NA

FLAMMABLE LIMITS IN AIR - LOWER (%): NA
FLAMMABLE LIMITS IN AIR - UPPER (%): NA

SENSITIVITY TO MECHANICAL IMPACT:

SENSITIVITY TO STATIC DISCHARGE:
SENSITIVITY TO STATIC DISCHARGE IS EXPECTED.

EXTINGUISHING MEDIA:
WATER, FOAM, CARBON DIOXIDE (CO2), DRY CHEMICAL, HALOGENATED AGENTS

SPECIAL FIRE FIGHTING PROCEDURES:
EXTREMELY FLAMMABLE. POLYMERIZATION MAY TAKE PLACE DURING A FIRE DUE TO ELEVATED TEMPERATURE WHERE CLOSED CONTAINERS COULD VIOLENTLY RUPTURE. TOXIC HYDROGEN CYANIDE CAN BE LIBERATED UNDER BURNING CONDITIONS. CONTAINERS CAN BUILD UP PRESSURE IF EXPOSED TO HEAT (FIRE). TREAT AS A PRESSURIZED CONTAINER. FIREFIGHTERS MUST WEAR NIOSH/MSHA APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE MASK AND FULL PROTECTIVE CLOTHING. COOL CLOSED CONTAINERS EXPOSED TO FIRE WITH WATER SPRAY.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
WEAR SUITABLE PROTECTIVE EQUIPMENT.

7. HANDLING AND STORAGE

STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
AVOID CONTACT WITH SKIN AND EYES. USE ONLY IN WELL-VENTILATED AREAS. AVOID INHALATION OF VAPOR OR MIST. CURING RELEASES VAPORS WHICH MAY BE HARMFUL. REMOVE CONTACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM THE FINGERTIPS, NAILS AND CUTICLES. RESIDUAL SEALANT MAY REMAIN ON FINGERS FOR SEVERAL DAYS AND TRANSFER TO LENSES AND CAUSE SEVERE EYE IRRITATION. GOOD HYGIENIC PRACTICES SHOULD BE OBSERVED. WORK CLOTHES SHOULD BE WASHED SEPARATELY AT THE END OF EACH WORK DAY. DISPOSABLE CLOTHING SHOULD BE DISCARDED WITH MATERIAL. STORE BETWEEN 40 F AND 120 F. DO NOT STORE WHERE TEMPERATURES MAY EXCEED 120 F. IF TEMPERATURE IS LESS THAN 40 F, CONTENTS MAY SEPARATE. SHAKE CAN TO MIX. KEEP AWAY FROM CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: EYEWASH STATIONS

RESPIRATORY PROTECTION:
IF EXPOSURE LIMITS ARE EXCEEDED OR RESPIRATORY IRRITATION IS EXPERIENCED, NIOSH/MSHA APPROVED RESPIRATORY PROTECTION SHOULD BE WORN. SUPPLIED AIR RESPIRATORS MAY BE REQUIRED FOR NON-ROUTINE OR EMERGENCY SITUATIONS. RESPIRATORY PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH OSHA REGULATIONS (SEE 29 CFR 1910.134).

PROTECTIVE GLOVES: IMPERMEABLE OR CHEMICAL RESISTANT GLOVES.
EYE AND FACE PROTECTION: SAFETY GLASSES WITH SIDE-SHIELDS
OTHER PROTECTIVE EQUIPMENT: WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.
EXPOSURE GUIDELINES:

COMPONENT	CAS RN	SOURCE	VALUE
CHLOROMETHANE		ACGIH, TWA	1,000 PPM
CHLORODIFLUOROMETHANE		OSHA 21A, TWA	1,000 PPM 3,500 MG/M3

ABSENCE OF VALUES INDICATES NONE FOUND

PEL - OSHA PERMISSIBLE EXPOSURE LIMIT
TLV - ACGIH THRESHOLD LIMIT VALUE
TWA - TIME WEIGHTED AVERAGE

OSHA REVOKED THE FINAL RULE LIMITS OF JANUARY 19, 1989 IN RESPONSE TO THE
NINTH CIRCUIT COURT OF APPEALS DECISION (AFL-CIO V. OSHA) EFFECTIVE JUNE
30, 1993. SEE 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F:
-33.33 DEG. C
-29.40 DEG. F

VAPOR PRESSURE (20 C) (MMHG):

VAPOR DENSITY (AIR=1):

FREEZING POINT: NA

MELTING POINT: NA

PHYSICAL STATE: SOLID

ODOR: FLUOROCARBONS

COLOR: OFF-WHITE

EVAPORATION RATE (BUTYL ACETATE=1):

SPECIFIC GRAVITY (WATER=1): CA. 1.20

DENSITY (KG/M3): CA. 1,200 KG/M3

ACID / ALKALINITY (MEQ/G): NA

pH: NA

VOLATILE ORGANIC CONTENT (VOL):

SOLUBILITY IN WATER (20 C): INSOLUBLE

SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): NO DATA AVAILABLE

VOC: H2O & EXEMPTS (G/L): ND

10. STABILITY AND REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS:
CARBON DIOXIDE (CO2); CARBON MONOXIDE; HYDROGEN CYANIDE (HYDROCYANIC ACID);
OXIDES OF NITROGEN.

INCOMPATIBILITY (MATERIALS TO AVOID):
AVOID AMINES, BASES ALCOHOLS FINELY POWDERED METALS.

CONDITIONS TO AVOID: FREEZING KEEP AWAY FROM HEAT AND SOURCES OF IGNITION.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL: UNKNOWN

ACUTE DERMAL: UNKNOWN

ACUTE INHALATION: UNKNOWN

OTHER: NONE.

SENSITIZATION:

SKIN IRRITATION:

EYE IRRITATION:

MUTAGENICITY: UNKNOWN

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY: NO DATA AVAILABLE

CHEMICAL FATE:

DISTRIBUTION:

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:
DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
REGULATIONS.

14. TRANSPORT INFORMATION

NOT REGULATED IF SECTION IS BLANK:

IMO IMDG-CODE: LTD QTY - AEROSOLS 2, UN1950

EMS NO: 2-13

REMARKS:
IATA C: DO NOT AIR SHIP
IATA P: DO NOT AIR SHIP

15. REGULATORY INFORMATION

US REGULATORY INFORMATION:

CERCLA:

PRODUCT COMPOSITION CHEMICAL CERCLA REPORTABLE QUANTITY

CLEAN AIR ACT:

CLEAN WATER ACT:

SARA SECTION 302:

SARA (311, 312) HAZARD CLASS: ACUTE HEALTH HAZARD

SARA (313) CHEMICALS:
9016-87-9, ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER 101-68-8,
DIPHENYLMETHANE DIISOCYANATE

CANADIAN REGULATORY INFORMATION:

WHMIS HAZARD CLASS: A COMPRESSED GAS, D2B TOXIC MATERIALS

OTHER:

SCHDLE B/HTSUS:

ECCN:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO
CAUSE CANCER, BIRTH DEFECTS OR ANY OTHER HARM.

16. OTHER INFORMATION

OTHER:

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS PRODUCT
SPECIFICATIONS. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS 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.

C = CEILING LIMIT

NEGL = NEGLIGIBLE

EST = ESTIMATED

NF = NONE FOUND

NA = NOT APPLICABLE

UNKN = UNKNOWN

NE = NONE ESTABLISHED

REC = RECOMMENDED

ND = NONE DETERMINED

V = RECOMMENDED BY VENDOR

BY-PRODUCT = REACTION BY-PRODUCT; TSCA INVENTORY STATUS NOT REQUIRED UNDER
40 CFR PART 720.30 (H-2)

SKN = SKIN

TS = TRADE SECRET

R = RECOMMENDED

MST = MIST

ST = SHORT TERM EXPOSURE LIMIT

NT = NOT TESTED

PPM = PARTS PER MILLION

PBB = PARTS PER BILLION