

FIRESTONE
MATERIAL SAFETY
DATA SHEET

DEEMED HAZARDOUS ACCORDING TO
OSHA HAZARD COMMUNICATION
RULE 29 CFR 1910.1200

FIRESTONE CODE: NE
DATE ENTERED: 11/19/85
DATE REVISED: 03/15/91
CLASSIFICATION: CE23

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: FASTENER SEALER S-40
CHEMICAL NAME/SYNONYMS: N.A.V.

CHEMICAL FAMILY: POLYCHLOROPRENE ADHESIVE

CHEMICAL FORMULA: N.A.V.

24-HOUR EMERGENCY PHONE NO: (216) 379-6409

CHEMTREC PHONE NO: (800) 424-9300

MANUFACTURER'S NAME: FIRESTONE BUILDING PRODUCTS CO.
MANUFACTURER'S ADDRESS: 525 CONGRESSIONAL BLVD.
CARMEL, IND. 46032

NFPA ACUTE HAZARD RATING: N.A.V.

HEALTH: FLAMMABILITY: REACTIVITY:

SECTION 2 CHEMICAL COMPOSITION

SEE SECTION 12 FOR LD50 AND LC50 DATA

INGREDIENT (CHEMICAL NAME)	CAS NO.	%	PEL	TLV
*TOLUENE	108-88-3	50	100 PPM	100 PPM
NEOPRENE RUBBER	9010-98-4	<30	N.A.V.	N.A.V.
*MAGNESIUM OXIDE	1309-48-4	<5	10 MG/M3	10 MG/M3
NON-HAZARDOUS ACCORDING TO OSHA 29 CFR 1910.1200	00-00-00	<40	N.A.V.	N.A.V.

SECTION 3 EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT:

- HOLD EYELIDS OPEN AND FLUSH IMMEDIATELY WITH GENTLE STREAM OF WATER FOR AT LEAST 15 MINUTES, PREFERABLY AT EYEWASH FOUNTAIN.
- GET MEDICAL ATTENTION.

SKIN CONTACT:

- CLEAN WITH RUBBING ALCOHOL FIRST, FOLLOWED IMMEDIATELY BY WASHING AFFECTED AREA WITH SOAP AND WATER.

INHALATION:

- REMOVE TO FRESH UNCONTAMINATED AIR.
- ADMINISTER OXYGEN IF BREATHING IS LABORED. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.
- GET MEDICAL ATTENTION IMMEDIATELY IF OXYGEN OR ARTIFICIAL RESPIRATION ARE ADMINISTERED.

INGESTION:

- CONTAINS PETROLEUM DISTILLATES. IN CASE OF ACCIDENTAL INGESTION, DO NOT INDUCE VOMITING.

SPECIAL INSTRUCTIONS FOR PHYSICIAN:
N.A.V.

SECTION 4 PHYSIOLOGICAL EFFECTS

PRIMARY ROUTE(S) OF ENTRY INTO BODY: SKIN ABSORPTION, INHALATION

ACUTE EFFECTS:

EYES:

-MAY CAUSE MODERATE EYE IRRITATION.

SKIN:

-PROLONGED OR REPEATED CONTACT MAY CAUSE DERMATITIS.
-ABSORPTION THROUGH INTACT SKIN MAY CONTRIBUTE TO OVERALL EXPOSURE.
-MAY CAUSE DRYING OF THE SKIN.
-MAY REMOVE NATURAL SKIN OILS (DEFATTING ACTION).

INHALATION:

-MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION (NARCOSIS) CHARACTERIZED BY HEADACHE, DIZZINESS, MUSCULAR WEAKNESS AND FATIGUE.
-MAY CAUSE UNCONSCIOUSNESS IF EXPOSURE IS EXCESSIVE.

INGESTION:

-MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION (NARCOSIS) CHARACTERIZED BY HEADACHE, DIZZINESS, MUSCULAR WEAKNESS AND FATIGUE.

CHRONIC EFFECTS IN HUMANS:

-MAY CAUSE LIVER DAMAGE.
-MAY CAUSE KIDNEY DAMAGE.
-MAY CAUSE NEUROLOGICAL DISORDERS.

CHRONIC EFFECTS IN ANIMALS:

-MAY CAUSE LIVER DAMAGE.
-MAY CAUSE KIDNEY DAMAGE.

SECTION 5 OCCUPATIONAL CONTROL PROCEDURES

VENTILATION:

-USE IN A WELL-VENTILATED LOCATION.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATOR TYPE:

-USE NIOSH-APPROVED RESPIRATOR FOR PROTECTION AGAINST ORGANIC VAPORS, DUSTS AND MISTS IF EXPOSURE MIGHT EXCEED THE TLV.

GLOVES:

-WEAR NITRILE GLOVES FOR DIRECT HANDLING.

EYE PROTECTION:

-NONE REQUIRED.

OTHER:

-NONE REQUIRED.

SECTION 6 PHYSICAL DATA

APPEARANCE/ODOR:

-TAN VISCOUS/AROMATIC ODOR

PHYSICAL STATE:

-PASTE

BOILING POINT: 232 DEG. F
MELTING/FREEZING POINT: N.A.V. DEG.
SPECIFIC GRAVITY(WATER=1): 1.063
PH(FULL STRENGTH): N.AV
PH(RECOMMENDED DILUTION): N.AV

SOLUBILITY IN WATER: NIL
VAPOR PRESSURE: 36.7 MM HG AT 20 DEG. C
VAPOR DENSITY(AIR=1): 3.1
EVAPORATION RATE : (BUTYL ACETATE = 1)11.5
PERCENT VOLATILES: 45

SECTION 7 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 45 DEG. F
METHOD USED:
-TAGLIABUE CLOSED TESTER (ASTM D56-82)
FLAMMABLE (EXPLOSIVE) LIMITS IN AIR: LEL: 1.27 UEL: 7.0
AUTOIGNITION TEMPERATURE: 1026 DEG. F
SUITABLE EXTINGUISHING MEDIA:
-WATER SPRAY, FOAM, CARBON DIOXIDE

HAZARDOUS COMBUSTION PRODUCTS:
-CARBON DIOXIDE AND CARBON MONOXIDE
-OXIDES OF NITROGEN

RECOMMENDED FIREFIGHTING PROCEDURE:
-WEAR IMPERMEABLE PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
TOXIC FUMES AND VAPORS MAY BE EVOLVED.

UNUSUAL FIRE & EXPLOSION HAZARD:
-HEAT BUILDS UP PRESSURE IN CLOSED CONTAINERS. COOL WITH WATER STREAM.

SECTION 8 REACTIVITY DATA

THERMAL STABILITY: STABLE
CONDITIONS TO AVOID:
-HEAT, SPARKS, AND OPEN FLAMES.

HAZARDOUS DECOMPOSITION PRODUCTS:
-NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID:
-N.AV.

INCOMPATIBILITY:
MATERIALS TO AVOID:
-ACIDS
-ALKALIES
-STRONG OXIDIZING AGENTS

CORROSIVE ACTION ON MATERIALS:
-N.AV.

SECTION 9 STORAGE AND HANDLING PRECAUTIONS

STORAGE:
-KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
-KEEP CONTAINERS CLOSED.
-STORE IN A COOL, DRY AREA.

HANDLING:
-VAPORS OF THIS MATERIAL ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW OR
CONFINED AREAS.

PRECAUTIONARY LABELING:
DANGER! FLAMMABLE.
INHALATION OF VAPORS MAY CAUSE HEADACHES AND
DIZZINESS.

SECTION 10 ENVIRONMENTAL INFORMATION

SPILL OR LEAK PROCEDURES:
REMOVE IGNITION SOURCES. ABSORB ON INERT MATERIAL. USE NON-
SPARKING TOOLS. PLACE IN SECURE CONTAINERS FOR DISPOSAL.
SAME AS ABOVE. USE PERSONAL PROTECTIVE EQUIPMENT AS OUTLINED
IN SECTION 5 FOR ALL SPILLS/LEAKS.
SPILL REPORTABLE QUANTITY: N.AV. LBS. (N.AV.)

WASTE DISPOSAL METHOD(INCLUDING CLEAN-UP MEDIA)
AS A HAZARDOUS WASTE IN ACCORDANCE WITH EPA/RCRA REGULATIONS
40CFR 261.21(A)(1)

EPA OR APPROPRIATE WASTE CLASSIFICATION:
RCRA OR APPROPRIATE CHARACTERISTIC WASTE. EPA HAZARDOUS WASTE NO. D00 1

PROCEDURE FOR HANDLING EMPTY CONTAINERS:
N.AV.

ENVIRONMENTAL TOXICITY DATA:
N.AV.

OTHER REGULATORY CONTROLS: N.AV.
MATERIAL CLASSIFIED UNDER THE CLEAN WATER ACT(USA) OR APPROPRIATE WATER REGULATIONS AS A: N.AV.
TOXIC POLLUTANT(SECTION 307)? YES NO
HAZARDOUS SUBSTANCE(SECTION 311)? YES NO

OIL(SECTION 311)? YES NO
HAZARDOUS CLASS (SECTION 311): YES NO

X ACUTE X CHRONIC X FIRE X PRESSURE REACTIVE
MATERIAL CLASSIFIED UNDER THE CLEAN AIR ACT(USA) OR APPROPRIATE CLEAN AIR REGULATIONS AS A: N.AV.
HAZARDOUS AIR POLLUTANT(SECTION 12)? YES NO

COMMENTS:
SARA TITLE III SECTION 313 REPORTABLE CHEMICAL: TOLUENE
MATERIAL CLASSIFICATION UNDER CLEAN WATER ACT: N.AV.
MATERIAL CLASSIFICATION UNDER CLEAN AIR ACT: N.AV.

SECTION 11 TRANSPORTATION/SHIPPING

INDICATE COUNTRY/REGULATORY AGENCY WHICH SPECIFIES REQUIREMENTS:
-USA-DOT-IMO

PROPER SHIPPING NAME:
ADHESIVE

HAZARD CLASS:
-FLAMMABLE LIQUID
IDENTIFICATION NO.: UN1133

LABELS REQUIRED:
-FLAMMABLE LIQUID

OTHER REQUIREMENTS:
REFERENCE CFR 49, PRINCIPLE INGRED: ADHESIVE, IMDG
CLASS 3.2, PG. 3174 , UN1133, FLASHPOINT 7C

SECTION 12 ADDITIONAL DATA/COMMENTS

TOLUENE LD50 ORAL (RAT) = 5 G/KG, LD50 DERMAL (RABBIT)
=14 G/KG, LC50 INH (RAT) = 8000PPM/4HR
ALL OTHER INGREDIENTS LD50 AND LC50 N.AV.
OSHA NON-HAZARDOUS INGREDIENTS DO NOT MEET DEFINITIONS OF
CONTROLLED PRODUCT UNDER CANADA'S HAZARDOUS PRODUCTS ACT.
TOLUENE HAS BEEN CLASSIFIED AS A REPRODUCTIVE TOXIN AS PER CALIFORNIA
PROPOSITION 65 (CAL. HEALTH AND SAFETY CODE SECTION 25249.5, 1/1/91.)

SECTION 13 MISCELLANEOUS INFORMATION

INFORMATION SUPPLIED BY: ROBERT D. HOFER, CIH
TITLE: SR. INDUSTRIAL HYGIENIST
TELEPHONE NUMBER FOR ROUTINE INQUIRIES: (216) 379-7394

DATE OF PREPARATION OF MSDS: 03/15/91
REVISED, SUPERSEDES 09/20/90
COMPANY NAME: BRIDGESTONE/FIRESTONE, INC.
ADDRESS: 1200 FIRESTONE PARKWAY, AKRON, OH 44317
TELEPHONE NUMBER: (216) 379-7000

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