

SAFETY DATA SHEET

R-27780

Brushable Neoprene Contact Adhesive

PREPARED October 8, 2003

LAST REVISED April 17, 2026

SDS FORMAT OSHA HazCom 2012 / GHS

1 IDENTIFICATION

PRODUCT NAME	R-27780
PRODUCT CODE	R-27780
SYNONYMS	Rubatex R-27780 Brushable Contact Adhesive
PRODUCT TYPE	Solvent-based neoprene contact adhesive
RECOMMENDED USE	Industrial bonding of rubber and elastomeric materials to porous and non-porous substrates
USES ADVISED AGAINST	Any application not described in the Technical Data Sheet; consumer use
MANUFACTURER	Hanna Rubber Company 908 W. 25th Street, Kansas City, MO 64108 Business Phone: (816) 221-9600
EMERGENCY TELEPHONE	CHEMTREC: (800) 424-9300 (24-hour)

2 HAZARD IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids	Category 2
Skin irritation	Category 3
Eye irritation	Category 2B
Reproductive toxicity	Category 2
Specific target organ toxicity — single exposure (STOT SE)	Category 3 (narcotic effects)
Specific target organ toxicity — repeated exposure (STOT RE)	Category 2 (nervous system)
Aspiration hazard	Category 1
Acute aquatic toxicity	Category 3

GHS LABEL ELEMENTS



SIGNAL WORD

DANGER

HAZARD STATEMENTS

- H225** Highly flammable liquid and vapor.
- H304** May be fatal if swallowed and enters airways.
- H315** Causes skin irritation.
- H319** Causes serious eye irritation.
- H336** May cause drowsiness or dizziness.
- H361** Suspected of damaging fertility or the unborn child.
- H373** May cause damage to organs (nervous system) through prolonged or repeated exposure if inhaled.
- H402** Harmful to aquatic life.

PRECAUTIONARY STATEMENTS

- P210** Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
- P233** Keep container tightly closed.
- P240** Ground and bond container and receiving equipment.
- P241** Use explosion-proof electrical, ventilating, and lighting equipment.
- P242** Use non-sparking tools.
- P243** Take action to prevent static discharges.
- P261** Avoid breathing vapors or mist.
- P264** Wash skin thoroughly after handling.
- P270** Do not eat, drink, or smoke when using this product.
- P271** Use only outdoors or in a well-ventilated area.
- P280** Wear protective gloves, eye protection, and face protection.
- P301 + P310** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331** Do NOT induce vomiting.
- P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P403 + P233** Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235** Store in a well-ventilated place. Keep cool.
- P501** Dispose of contents and container in accordance with local, regional, national, and international regulations.

HMIS CLASSIFICATION

Health Hazard	2
Chronic Health Hazard	*
Flammability	3
Physical Hazard	0

NFPA RATING

Health	2
Fire	3
Reactivity	0
Special	—

TARGET ORGANS

Peripheral nervous system, kidney, liver, testes.

POTENTIAL HEALTH EFFECTS

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Skin Contact	May be harmful if absorbed through skin. Causes skin irritation.
Eye Contact	Causes serious eye irritation.
Ingestion	May be harmful if swallowed. Aspiration hazard — may enter lungs and cause damage.

3 COMPOSITION / INFORMATION ON INGREDIENTS

#	CHEMICAL NAME	CAS NO.	EC NO.	WEIGHT %
1	Acetone	67-64-1	200-662-2	27 – 35%
2	n-Hexane	110-54-3	203-777-6	32 – 40%
3	Toluene	108-88-3	203-625-9	10 – 19%

Any remaining ingredients (to comprise 100% of the product) are considered a proprietary blend of non-hazardous substances or materials below threshold reporting limits.

4 FIRST-AID MEASURES

EYE CONTACT	Flush with large quantities of water for at least 15 minutes or until irritation subsides. Remove contact lenses if present and easy to do. Contact a physician.
SKIN CONTACT	Wash with soap and water. Remove contaminated clothing and launder before reuse. If irritation develops or persists, consult a physician.
INHALATION	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately.
INGESTION	Do NOT induce vomiting. Aspiration hazard if swallowed — may enter lungs and cause lung damage. Contact a physician or regional poison control center immediately.
MOST IMPORTANT SYMPTOMS	Headache, dizziness, drowsiness, nausea, respiratory irritation, skin and eye irritation, defatting of skin.
NOTES TO PHYSICIAN	Treat symptomatically. Show this Safety Data Sheet to the attending physician.

5 FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Dry chemical, carbon dioxide (CO₂), alcohol-resistant foam, water spray or fog.

UNSUITABLE EXTINGUISHING MEDIA

Direct water jet (may spread fire).

SPECIFIC HAZARDS

Highly flammable liquid and vapor. Vapors are heavier than air and may travel along the ground or be moved by ventilation to distant ignition sources (pilot lights, open flames, sparks, heaters, electric motors, static discharge). Hazardous

decomposition products under fire conditions include carbon oxides.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear full fire-fighting turnout gear (full bunker gear) and positive-pressure self-contained breathing apparatus (SCBA). Use water spray to cool unopened containers.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use personal protective equipment as indicated in Section 8. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Vapors may accumulate to form explosive concentrations; vapors are heavier than air and collect in low areas.

ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not allow product to enter drains, sewers, or waterways.

METHODS FOR CONTAINMENT AND CLEAN-UP

Contain spillage and collect with an electrically protected (explosion-proof) vacuum or by wet-brushing. Place collected material in a suitable, closed container for disposal in accordance with applicable regulations.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Keep out of the reach of children. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well-ventilated area. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Use non-sparking tools and explosion-proof equipment. Ground and bond containers and receiving equipment during transfer operations.

CONDITIONS FOR SAFE STORAGE

Store in a cool, dry, well-ventilated area away from heat, sparks, open flames, and incompatible materials (see Section 10). Keep containers tightly closed when not in use. Protect from freezing and from excessive heat. Store away from caustics and oxidizers.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

COMPONENT	CAS NO.	VALUE	LIMIT	AUTHORITY
Acetone	67-64-1	TWA	250 ppm	ACGIH
Acetone	67-64-1	STEL	500 ppm	ACGIH
Acetone	67-64-1	TWA	1000 ppm	OSHA PEL (Table Z-1)
Acetone	67-64-1	TWA	250 ppm	NIOSH REL
n-Hexane	110-54-3	TWA	50 ppm (skin)	ACGIH
n-Hexane	110-54-3	TWA	500 ppm	OSHA PEL (Table Z-1)
n-Hexane	110-54-3	TWA	50 ppm	NIOSH REL
Toluene	108-88-3	TWA	20 ppm	ACGIH
Toluene	108-88-3	TWA	200 ppm	OSHA PEL (Table Z-1)
Toluene	108-88-3	C	300 ppm	OSHA Ceiling (Z-2)

ENGINEERING CONTROLS

Provide sufficient mechanical ventilation (local exhaust or general) to maintain airborne exposures below applicable PELs and TLVs. Vapors are heavier than air and will collect in low areas; check basements, sumps, pits, and other low-lying areas for vapor accumulation before entering.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection	Where airborne concentrations may exceed exposure limits, use a NIOSH-approved air-purifying respirator with organic-vapor cartridges, or a supplied-air respirator for higher concentrations or oxygen-deficient atmospheres. Use full-face respirators where eye irritation is possible.
Hand Protection	Chemical-resistant gloves (e.g., nitrile, butyl, or PVA; consult glove manufacturer for breakthrough data specific to solvent blend). Replace promptly if contamination occurs. Use proper glove-removal technique.
Eye/Face Protection	Chemical splash goggles and face shield where splash potential exists. Equipment should meet ANSI Z87.1 or EN 166.
Skin/Body Protection	Impervious, chemical-resistant clothing. Flame-retardant clothing where ignition risk is elevated. Select based on concentration and quantity of hazardous substances in the workplace.
Hygiene Measures	Wash hands before breaks and at end of workday. Do not eat, drink, or smoke while handling this product.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber to clear liquid
Odor	Aliphatic solvent
Odor Threshold	No data available
pH	Not applicable
Melting Point / Freezing Point	No data available
Initial Boiling Point	156.0 °F (68.89 °C)
Flash Point	-14.8 °F (-26.0 °C), closed cup
Evaporation Rate	15.8 (n-butyl acetate = 1)
Flammability (solid, gas)	Not applicable (liquid)
Upper Explosion Limit (UEL)	7.0% (v/v in air)
Lower Explosion Limit (LEL)	1.2% (v/v in air)
Vapor Pressure	341.3 hPa (256.0 mmHg) at 37.7 °C (99.9 °F)
Vapor Density	Heavier than air
Relative Density	0.807 (water = 1.00)
Solubility in Water	Miscible (solvent fraction); polymer insoluble
Partition Coefficient (n-octanol/water)	No data available
Auto-ignition Temperature	453.0 °F (233.9 °C)
Decomposition Temperature	No data available
Viscosity	Brushable consistency
Weight per Gallon	6.73 lb/gal
VOC Content	479.92 g/L (4.81 lb/gal)

10 STABILITY AND REACTIVITY

REACTIVITY

No dangerous reaction known under conditions of normal use.

CHEMICAL STABILITY

Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

Vapors may form explosive mixtures with air.

CONDITIONS TO AVOID

Heat, flames, sparks, extremes of temperature, direct sunlight, and sources of static discharge.

INCOMPATIBLE MATERIALS

Strong oxidizing agents, strong acids, strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides (CO, CO₂) under fire conditions. No other hazardous decomposition products under normal use.

11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral LD50 (rat)	25,000 mg/kg (behavioral effects: altered sleep, tremor)
Inhalation LC50 (rat, 4 hr)	48,000 ppm
Dermal LD50	No data available

SKIN CORROSION / IRRITATION

Causes skin irritation based on component data.

SERIOUS EYE DAMAGE / IRRITATION

Mild to moderate eye irritation (rabbit, based on component data).

RESPIRATORY OR SKIN SENSITIZATION

Not classified as a respiratory or skin sensitizer.

GERM CELL MUTAGENICITY

No data available.

CARCINOGENICITY

- IARC: No component present at levels $\geq 0.1\%$ is identified as a known, possible, or confirmed human carcinogen.
- ACGIH: No component present at levels $\geq 0.1\%$ is identified as a known, possible, or confirmed human carcinogen.
- NTP: No component present at levels $\geq 0.1\%$ is identified as a known, possible, or confirmed human carcinogen.
- OSHA: No component present at levels $\geq 0.1\%$ is identified as a known, possible, or confirmed human carcinogen.

Note: Animal data for some components indicate tumorigenic effects by inhalation route; no evidence of human carcinogenicity at occupational exposure levels.

REPRODUCTIVE TOXICITY

Contains components suspected of damaging fertility or the unborn child based on animal testing. Overexposure may cause reproductive effects.

SPECIFIC TARGET ORGAN TOXICITY — SINGLE EXPOSURE (STOT SE)

Category 3: May cause drowsiness or dizziness.

SPECIFIC TARGET ORGAN TOXICITY — REPEATED EXPOSURE (STOT RE)

Category 2: May cause damage to the nervous system through prolonged or repeated inhalation exposure (n-hexane peripheral neuropathy).

ASPIRATION HAZARD

Category 1: May be fatal if swallowed and enters airways.

SIGNS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated skin contact may cause defatting and dermatitis. Eye contact may cause redness, blurred vision, and tearing. Inhalation of high concentrations may cause central nervous system depression, headache, dizziness, drowsiness, slow reaction time, and slurred speech. Ingestion may cause gastrointestinal discomfort; aspiration into the lungs may cause chemical pneumonitis and pulmonary edema.

12 ECOLOGICAL INFORMATION

TOXICITY

Fish (<i>Pimephales promelas</i> , 96 hr LC50)	2.5 mg/L
Invertebrates (<i>Daphnia magna</i> , 48 hr LC50)	3,878 mg/L
Freshwater algae (<i>Chlorella vulgaris</i> , 3 hr EC50)	12,840 mg/L
Marine algae (<i>Skeletonema costatum</i> , 8 hr EC50)	0.30 mg/L

PERSISTENCE AND DEGRADABILITY

No data available on the full product. Component solvents (acetone, hexane, toluene) are generally considered biodegradable under aerobic conditions.

BIOACCUMULATIVE POTENTIAL

Low bioaccumulation potential based on component log K_{ow} values.

MOBILITY IN SOIL

No data available. Component solvents are expected to be mobile in soil and to volatilize rapidly from soil surfaces.

OTHER ADVERSE EFFECTS

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13 DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL

Dispose of in accordance with federal, state, and local regulations. Discarded product should be incinerated at a permitted hazardous-waste facility equipped with an afterburner and scrubber. Use extra caution when igniting, as this material is highly flammable. Liquids cannot be disposed of in a landfill.

CONTAMINATED PACKAGING

Do not reuse empty containers. Dispose of containers in accordance with federal, state, and local regulations. State and local regulations may differ from federal requirements; responsibility for proper waste disposal rests with the owner of the waste.

14 TRANSPORT INFORMATION

UN Number	UN 1133
Proper Shipping Name	Adhesives, containing a flammable liquid
Hazard Class	3 (Flammable liquid)
Packing Group	II
DOT Reportable Quantity (RQ)	5,000 lb
Marine Pollutant	No
Poison Inhalation Hazard	No
IMDG	UN 1133, Adhesives, Class 3, PG II
IATA	UN 1133, Adhesives, Class 3, PG II

15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

SARA 302 (Extremely Hazardous Substances): No components subject to reporting under SARA Title III, Section 302.

SARA 311/312 Hazard Categories: Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

SARA 313 (Toxic Release Inventory): The following components are subject to reporting under SARA Title III, Section 313:

- n-Hexane (CAS 110-54-3)
- Toluene (CAS 108-88-3)

CERCLA Reportable Quantities:

COMPONENT	CAS NO.	COMPONENT RQ (LB)
Acetone	67-64-1	5,000
n-Hexane	110-54-3	5,000
Toluene	108-88-3	1,000

Clean Air Act — Hazardous Air Pollutants (HAPs) under Section 112 (40 CFR 61):

COMPONENT	CAS NO.	CONTENT
n-Hexane	110-54-3	32 – 40%
Toluene	108-88-3	10 – 19%

Clean Water Act: Toluene is listed as a hazardous substance under Section 311 (Tables 116.4A and 117.3) and as a toxic pollutant under Section 307.

U.S. STATE REGULATIONS

Right-to-Know (Massachusetts, Pennsylvania, New Jersey): Acetone, n-Hexane, and Toluene are listed.

△ CALIFORNIA PROPOSITION 65 WARNING

This product contains chemicals known to the State of California to cause birth defects or other reproductive harm:

TOLUENE (CAS 108-88-3) and **N-HEXANE** (CAS 110-54-3). For more information, go to www.P65Warnings.ca.gov.

INTERNATIONAL CHEMICAL INVENTORIES

COUNTRY / REGION	INVENTORY NAME	STATUS
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	YES
Australia	Australian Inventory of Chemical Substances (AICS)	YES
Canada	Domestic Substances List (DSL)	YES
Canada	Non-Domestic Substances List (NDSL)	NO
China	Inventory of Existing Chemical Substances in China (IECSC)	YES
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	YES
Japan	Inventory of Existing and New Chemical Substances (ENCS / ISHL)	YES
Korea	Existing Chemicals List (ECL)	YES
New Zealand	New Zealand Inventory	YES
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	YES

16 OTHER INFORMATION

HMIS Rating	Health: 2 · Flammability: 3 · Physical Hazard: 0
NFPA Rating	Health: 2 · Fire: 3 · Reactivity: 0
HAP (less water, less exempt solvent)	4.81 lb/gal · 479.92 g/L
VOC (less water, less exempt solvent)	4.81 lb/gal · 479.92 g/L
Product Shelf Life	12 months from date of manufacture in unopened, sealed container
Date of Preparation	October 8, 2003
Date of Last Revision	April 17, 2026 (Revision 3.0)
Reason for Revision	Editorial corrections to Sections 2, 8, 11, 12, 15; updated GHS hazard statement formatting; reaffirmed regulatory citations

KEY / LEGEND OF ABBREVIATIONS

ACGIH American Conference of Governmental Industrial Hygienists · **CAS** Chemical Abstracts Service · **CERCLA** Comprehensive Environmental Response, Compensation and Liability Act · **GHS** Globally Harmonized System · **HMIS** Hazardous Materials Identification System · **IARC** International Agency for Research on Cancer · **NFPA** National Fire Protection Association · **NIOSH** National Institute for Occupational Safety and Health · **NTP** National Toxicology Program · **OSHA** Occupational Safety and Health Administration · **PEL** Permissible Exposure Limit · **REL** Recommended Exposure Limit · **RQ** Reportable Quantity · **SARA** Superfund Amendments and Reauthorization Act · **STEL** Short-Term Exposure Limit · **STOT** Specific Target Organ Toxicity · **TLV** Threshold Limit Value · **TSCA** Toxic Substances Control Act · **TWA** Time-Weighted Average · **VOC** Volatile Organic Compound.

— END OF SAFETY DATA SHEET —

The information contained herein is based on data considered accurate as of the revision date shown. However, no warranty is expressed or implied regarding the accuracy of these data or the results obtained from the use thereof. This information is provided for the recipient's consideration and investigation. Hanna Rubber Company assumes no responsibility for damages resulting from the use of this product. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable for their circumstances. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable; however, each user should review the recommendations in the specific context of the intended use and determine whether they are appropriate.

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