

SPLICE ADHESIVE-SA 28

According to OSHA HCS

Product Name : Splice Adhesive
Product Code : SA 28
HS Code : 350691000000

Version : 03
Initial Date : 01/01/2015
Revision Date : 13/11/2017

SECTION 01: Identification of the substance/mixture and of the company/undertaking

Product name	Splice Adhesive
Identified uses	Adhesive
Application of the substance	Adhesive
Manufacturer / Supplier	Techno Rubber Company Ltd
Address	PO Box 3508, Dammam 34326, Kingdom of Saudi Arabia
Telephone	+966 13 812 3333
Website	www.technorubber.com.sa
Email	info@technorubber.com.sa
Association / Organization	Techno Rubber Emergency Response
Telephone	+966 13 812 3333 (Sunday - Thursday 08:00-17:00)
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SECTION 02: Hazards identification

Classification of the substance or mixture

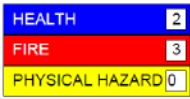
	GHS02 Flame	Flam. Liq. 2 H225 Highly flammable liquid and vapor
	GHS08 Health hazard	Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled Carc. 2 H351 Suspected of causing cancer. Repr. 2 H361 Suspected of damaging fertility or the unborn child STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure Asp. Tox. 1 H304 May be fatal if swallowed and enters airways
	GHS07	Skin Irrit. 2 H315 Causes skin irritation Skin Sens. 1 H317 May cause an allergic skin reaction STOT SE 3 H336 May cause drowsiness or dizziness

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Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS)	
Hazard pictograms	
GHS02 	GHS07  GHS08 
Signal word	Danger
Hazard statements	Highly flammable liquid and vapor. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.
Precautionary statements	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation] wear respiratory protection. If swallowed, Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If Inhaled, Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Specific treatment (see on this label). Do NOT induce vomiting. If skin irritation or rash occurs. Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. In case of fire: Use for extinction: CO2, powder or water spray.

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	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.
NFPA rating (scale 0-4)	 Health-1, Fire-3, Reactivity-0
HMIS rating (scale 0-4)	 Health-2, Fire-3, Physical hazard-0
Other hazards	Results of PBT and vPvB assessment PBT : Not applicable vPvB: Not applicable

SECTION 03: Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixtures

Hazardous Components		
108-88-3	Toluene	25-50%
110-54-3	N- Hexane	5-20%
64742-16-1	Phenolic modified hydrocarbon	2.5-12%
1330-20-7	xylene	2.5-12%
9006-04-06	Poly isocyanate homo polym	≤ 2.5%
100-41-4	Ethylbenzene	≤ 2.0%
1333-86-4	Carbon black	≤ 0.5%
1314-13-2	Zinc oxide	≤ 0.5%
546-93-0	Magnesite	≤ 0.5%

SECTION 04: First aid measures

Description of first aid measures

After Inhalation	Supply fresh air or oxygen: call for doctor
After skin contact	Immediately wash with water and soap and rinse thoroughly.
After eye contact	Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

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After swallowing	Seek medical treatment.
Information for doctor	Most important symptoms and effects, both acute and delayed. No further relevant information available. Indication of any immediate medical attention and special treatment needed. No further relevant information available.

SECTION 05: Fire-fighting measures

Extinguishing media

Suitable extinguishing agents	CO2, extinguishing powder or water spray. Fight larger with water spray. Use firefighting measures that suit the environment.
Special hazards arising from the substance or mixture	No further relevant information available.
Advice for fire-fighters	Protective equipment: Protective clothing and respiratory protective device.

SECTION 06: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions , protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
Environmental precautions	Do not allow to enter sewers/surface or ground water.
Methods and material for containment and cleaning up	Absorb with liquid binding material (sand, diatomite, acid binders, saw dust). Dispose of contaminated material as waste in accordance with federal state and local regulations. Ensure adequate ventilation.
Reference to other sections	See section 7 for information on safe handling. See section 8 for information on personal protective equipment. See section 13 for disposal information.

6.2. Protective action criteria for chemicals

PAC-1

108-88-3	Toluene	67 ppm
110-54-3	N -Hexane	260 ppm
1330-20-7	Xylene	130 ppm
100-41-4	Ethylbenzene	33 ppm
1314-13-2	Zinc oxide	10 mg/m3
546-93-0	Magnesite	45 mg/m3

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PAC-2

108-88-3	Toluene	560 ppm
110-54-3	N -Hexane	2900* ppm
1330-20-7	Xylene	920* ppm
100-41-4	Ethylbenzene	1100* ppm
1314-13-2	Zinc oxide	15 mg/m3
546-93-0	Magnesite	260 mg/m3

PAC-3

108-88-3	Toluene	3700* ppm
110-54-3	N -Hexane	8600* ppm
1330-20-7	Xylene	2500* ppm
100-41-4	Ethylbenzene	1800* ppm
1314-13-2	Zinc oxide	2,500 mg/m3
546-93-0	Magnesite	546-93-0

SECTION 07: Handling and storage

7.1. Handling

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Information about protection against explosions and fires	Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep container closed when not in use

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles	Store in a cool location away from direct heat.
Information about storage in one common storage facility	Store as flammable liquid. Store away from oxidizing agents.
Further information about storage conditions	Store in cool, dry conditions in well sealed receptacles. Keep receptacle tightly sealed.
Specific end use(s)	No further relevant information available.

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SECTION 08: Exposure controls/Personal protection

Control parameters

Additional information about design of technical systems	No further data, see item 7.
Components with limit values that require monitoring at the workplace	The following constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

108-88-3 Toluene

PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI

11-54-3 N-Hexane

PEL	Long-term value: 1800 mg/m ³ , 500 ppm
REL	Long-term value: 180 mg/m ³ , 50 ppm
TLV	Long-term value: 176 mg/m ³ , 50 ppm Skin; BEI

1330-20-7 Xylene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI

100-41-4 Ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI

1333-86-4 Carbon black

PEL	Long-term value: 3.5 mg/m ³
REL	Long-term value: 3.5* mg/m ³
TLV	*0.1 in presence of PAHs; See Pocket Guide Apps.A+C Long-term value: 3* mg/m ³ *inhalable fraction

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1314-13-2 zinc oxide

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction and fume
REL	Short-term value: 10** mg/m ³ Long-term value: 5 mg/m ³ Ceiling limit value: 15* mg/m ³ *dust only **fume
TLV	Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *as respirable fraction

546-93-0 Magnesite

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³
TLV	*total dust **respirable fraction TLV withdrawn

Ingredients with biological limit values:

108-88-3 toluene

BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
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110-54-3 n-hexane

BEI	0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2,5-Hexanedione without hydrolysis
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1330-20-7 xylene

BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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100-41-4 ethylbenzene

BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenyl glyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)
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Additional information

The lists that were valid during the creation were used as basis.

Exposure Controls	Personal Protective equipment (See listings below)
General protective and hygienic measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.
Breathing equipment	Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
Protection of hands	Protective gloves 
Eye protection	Safety glasses with side shields. 
Body protection	Protective work clothing

SECTION 09: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Black
Odour	Characteristic
Odour threshold	Not determined
PH value	Not applicable
Melting point	Undetermined
Boiling point	103 °C (217.4 °F)
Flash point	-17 °C (1.4 °F)
Decomposition temperature	Not determined
Ignition temperature	240.0 °C (464 °F)
Auto igniting	Product is not self-igniting
Danger of explosion	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Flammable limits	Lower: 1.2 vol % Upper: 7.4 vol %

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Vapor pressure @20 °C (68 °F)	160.0 hPa (120 mm Hg)
Specific gravity	0.88
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Solubility in /miscibility with water	Not miscible or difficult to mix.
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Solvent content	71%
Organic solvents	
Solid content	29 %
Other information	VOC: = 614 gm/l OR 5.13 LBS/GAL WEIGHT PER GALLON: = 7.3 LBS/GAL

SECTION 10: Stability and reactivity

Reactivity	No further relevant information available.
Chemical stability	Heat, flames, sparks.
Thermal decomposition / Conditions to be avoided	
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	Heat, flames, sparks, hot surfaces, ignition sources.
Incompatible materials	Reacts with oxidizing agents. Reacts with acids. Reacts with amines. Reacts with bases. Reactive metals.
Hazardous decomposition products	Carbon monoxide and carbon dioxide Nitrogen oxides Isocyanate Isocyanic acid Hydrogen bromide Hydrocarbons Dense smoke Trace amounts of the following may be formed: Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

Information on toxicological effects- Acute toxicity

Aquatic toxicity 108-88-3 toluene	LD/LC50 values that are relevant for classification
Oral	LD50 - 5,000 mg/kg (rat)
Dermal	LD50 - 12,124 mg/kg (rabbit)
Inhalative	LC50/4 h - 5,320 mg/l (mouse)

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Primary irritant effect

on the skin	Irritant to skin and mucous membranes
on the eye	May irritate the eye
Sensitization	Sensitizing effect through inhalation and contact with the skin is possible with prolonged exposure.
Additional toxicological information	The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant

Carcinogenic categories: IARC (International Agency for Research on Cancer)

108-88-3	Toluene	3
1330-20-7	xylene	3
1318-02-1	zeolite	3
100-41-4	ethylbenzene	2B
1333-86-4	Carbon black	2B

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

SECTION 12: Ecological information

Toxicity

Aquatic toxicity	No further relevant information available
Persistence and degradability	No further relevant information available
Behavior in environmental systems	
Bio accumulative potential	No further relevant information available
Mobility in soil	No further relevant information available
Eco toxic effects	
Remark	Harmful to fish
Additional ecological information	
General notes	At present, there are no eco toxicological assessments.
Results of PBT and vPvB assessment	
PBT	Not applicable

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vPvB	Not applicable
Other adverse effects	No further relevant information available

SECTION 13: Disposal considerations

Water treatment methods	Must be specially treated adhering to official regulations
Uncleaned packaging's	Recommendation: Disposal must be made according to official regulations

SECTION 14: Transport information

UN-Number DOT, ADN, IMDG, IATA	UN1133
UN proper shipping name DOT, ADN, IMDG, IATA	Adhesives
Transport hazard class(es) DOT Class Label IMDG, IATA	 3 Flammable liquids
Packing group DOT, IMDG, IATA	II
Environmental hazards Marine pollutant	-
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN Model Regulation	Not regulated

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara Section 355 (extremely hazardous substances)	None of the ingredients is listed.
Section 313 (Specific toxic chemical listings)	
108-88-3	Toluene
110-54-3	n-hexane

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1330-20-7	xylene
100-41-4	ethylbenzene
1314-13-2	zinc oxide

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements

TSCA (Toxic Substances Control Act)

Proposition 65

Chemicals known to cause cancer	100-41-4 ethylbenzene
Chemicals known to cause reproductive toxicity for females	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males	None of the ingredients is listed.
Chemicals known to cause developmental toxicity	108-88-3 toluene

(DSL) Canada Domestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

New Jersey Right-to-Know List

108-88-3	Toluene
1333-86-4	Carbon black
110-54-3	n-hexane
1330-20-7	xylene
100-41-4	ethylbenzene
1314-13-2	zinc oxide
546-93-0	Magnesite

New Jersey Special Hazardous Substance List

108-88-3	toluene	TE, F3
1333-86-4	Carbon black	F3
110-54-3	n-hexane	F3
1330-20-7	xylene	CA, F3
100-41-4	ethylbenzene	CA

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Pennsylvania Right-to-Know List

108-88-3	Toluene
1333-86-4	Carbon black
110-54-3	n-hexane
1330-20-7	Xylene
1314-13-2	zinc oxide

Pennsylvania Special Hazardous Substance List

108-88-3	Toluene	E
1330-20-7	Xylene	E
1314-13-2	zinc oxide	E
100-41-4	ethylbenzene	E

Carcinogen categories- EPA (Environmental Protection Agency)

108-88-3	Toluene	II
110-54-3	n-hexane	II
1330-20-7	Xylene	I
100-41-4	ethylbenzene	D
1314-13-2	zinc oxide	D, I, II

TLV (Threshold Limit Value established by ACGIH)

108-88-3	Toluene	A4
1330-20-7	Xylene	A4
100-41-4	ethylbenzene	A3
14807-96-6	Talc ($3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$)	A4
1333-86-4	Carbon black	A4

MAK (German Maximum Workplace concentration)

100-41-4	ethylbenzene	3A
14807-96-6	Talc ($3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$)	3B
1333-86-4	Carbon black	3B

NIOSH-Ca (National Institute for Occupational Safety and Health)

1333-86-4	Carbon black
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National regulations

Water hazard class	Water hazard class 2 (Self-assessment): hazardous for water
Chemical safety assessment	A Chemical Safety Assessment has not been carried out

SECTION 16: Other information

Abbreviations and acronyms	IMDG: International Maritime Code for Dangerous Goods ICAO: International Civil Aviation Organisation LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Flam. Liq. 2: Flammable liquids – Category 2 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous materials Identification system (USA) BEL: Biological Exposure Limit PBT: Persistent, Bio accumulative and Toxic vPvB: very Persistent and very Bio accumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
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