

SAFETY DATA SHEET

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

Page: 1
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone	1-800-ASHLAND (1-800-274-5263)

Product name	AMER HYDROTECH 9053 SPLICE ADHESIVE
Product code	120526
Product Use Description	No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, black

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS.

Potential Health Effects

Routes of exposure

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Additional symptoms of eye exposure may include: blurred vision

Skin contact

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Ingestion

SAFETY DATA SHEET

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

Page: 2
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: upper respiratory tract, Skin, lung (for example, asthma-like conditions), Liver, kidney, Central nervous system, male reproductive system, auditory system, Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: metallic taste, redness of the skin, mouth and throat irritation (soreness, dry or scratchy feeling, cough), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), discomfort in the chest, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, temporary changes in mood and behavior, weakness, respiratory depression (slowing of the breathing rate), shortness of breath, loss of coordination, confusion, irregular heartbeat, narcosis (dazed or sluggish feeling), coma, and death, Blistering

Target Organs

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans. Prolonged and repeated exposure to n-hexane may cause peripheral neuropathy by damaging peripheral nerve tissue (that of the arms and legs) and result in muscular weakness and loss of sensation. Prolonged intentional toluene abuse may lead to damage to many organ systems having effects on: central and peripheral nervous systems, vision, hearing, liver, kidneys, heart and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Comparable central

SAFETY DATA SHEET

Page: 3

Revision Date: 01/24/2008

Print Date: 7/3/2008

MSDS Number: R0252592

Version: 1.3

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

nervous system effects have not been shown to result from occupational exposure to toluene., Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness. In addition, while noise is known to cause hearing loss in humans, it has been suggested that workers exposed to organic solvents, including toluene, along with noise may suffer greater hearing loss than would be expected from exposure to noise alone., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:., nasal damage, respiratory tract damage (nose, throat, and airways), kidney damage, liver damage, effects on hearing, testis damage, lung damage, central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:., cardiac sensitization, visual impairment, kidney damage, central nervous system effects

Carcinogenicity

Ethylbenzene has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. The International Agency for Research on Cancer (IARC) has classified ethylbenzene as a possible human carcinogen. In testing of C-6 isomers for carcinogenicity by inhalation, there was a treatment-related increase in liver tumors (adenomas and carcinomas) in female mice at the highest dose only (9,000 ppm). There was no increase in tumor incidence in male mice or in rats of either sex at any dose level. Carbon black has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. It is listed as a carcinogen by The International Agency for Research on Cancer (IARC). Epidemiological studies of the incidence of cancer, cardiovascular or respiratory disease in workers in the carbon black producing industry have shown no significant health effects due to occupational exposure to carbon black. Exposure to carbon black is unlikely during normal handling and use since it is bound up within the product.

Reproductive hazard

This material (or a component) has been shown to cause birth defects in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain., Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
TOLUENE	108-88-3	>=50-<60%

SAFETY DATA SHEET

Page: 4

Revision Date: 01/24/2008

Print Date: 7/3/2008

MSDS Number: R0252592

Version: 1.3

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	>=5-<10%
N-HEXANE	110-54-3	>=5-<10%
XYLENE	1330-20-7	>=1.5-<5%
CYCLOHEXANE	110-82-7	>=1.5-<5%
n-HEPTANE	142-82-5	>=1-<1.5%
ETHYL BENZENE	100-41-4	>=1-<1.5%
CARBON BLACK	1333-86-4	>=0.1-<0.5%

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

SAFETY DATA SHEET

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

Page: 5
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water mist, Carbon dioxide (CO₂), Dry chemical

Hazardous combustion products

carbon dioxide and carbon monoxide, various hydrocarbons

Precautions for fire-fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Environmental precautions

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods for cleaning up

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

Handling

SAFETY DATA SHEET

Page: 6
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Storage

Store in a cool, dry, ventilated area. Keep containers closed when not in use. Do not store near extreme heat, open flame, or sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

TOLUENE		108-88-3
ACGIH	time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	375 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	560 mg/m3
OSHA Z2	time weighted average	200 ppm
OSHA Z2	Ceiling Limit Value:	300 ppm
OSHA Z2	Maximum concentration:	500 ppm
N-HEXANE		110-54-3
ACGIH	time weighted average	50 ppm
NIOSH	Recommended exposure limit (REL):	50 ppm
NIOSH	Recommended exposure limit (REL):	180 mg/m3
OSHA Z1	Permissible exposure limit	500 ppm
OSHA Z1	Permissible exposure limit	1,800 mg/m3
XYLENE		1330-20-7
ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	150 ppm
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	435 mg/m3
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	435 mg/m3

SAFETY DATA SHEET

Page: 7
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	655 mg/m3

CYCLOHEXANE **110-82-7**

ACGIH	time weighted average	100 ppm
OSHA Z1	Permissible exposure limit	300 ppm
OSHA Z1	Permissible exposure limit	1,050 mg/m3
NIOSH	Recommended exposure limit (REL):	300 ppm
NIOSH	Recommended exposure limit (REL):	1,050 mg/m3

n-HEPTANE **142-82-5**

ACGIH	time weighted average	400 ppm
ACGIH	Short term exposure limit	500 ppm
NIOSH	Recommended exposure limit (REL):	85 ppm
NIOSH	Recommended exposure limit (REL):	350 mg/m3
NIOSH	Ceiling Limit Value and Time Period (if specified):	440 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	1,800 mg/m3
OSHA Z1	Permissible exposure limit	500 ppm
OSHA Z1	Permissible exposure limit	2,000 mg/m3
OSHA Z1A	time weighted average	400 ppm
OSHA Z1A	time weighted average	1,600 mg/m3
OSHA Z1A	Short term exposure limit	500 ppm
OSHA Z1A	Short term exposure limit	2,000 mg/m3
US CA OEL	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):	400 ppm
US CA OEL	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):	1,600 mg/m3
US CA OEL	Short term exposure limit	500 ppm
US CA OEL	Short term exposure limit	2,000 mg/m3
ACGIH	time weighted average	400 ppm
ACGIH	Short term exposure limit	500 ppm

ETHYL BENZENE **100-41-4**

ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	125 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	435 mg/m3
NIOSH	Short term exposure limit	125 ppm
NIOSH	Short term exposure limit	545 mg/m3
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	435 mg/m3

General advice

SAFETY DATA SHEET

Page: 8

Revision Date: 01/24/2008

Print Date: 7/3/2008

MSDS Number: R0252592

Version: 1.3

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Eye protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).
To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory protection

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	black
Odour	No data
Boiling point/boilingrange	64.00 °C / 147 °F@ 1,013.33 hPa
pH	No data
Flash point	(<)0 °F / -18 °C, Seta closed cup
Evaporation rate	1 (Ethyl Ether)
Explosion limits	1 % (V) 7 % (V)
Vapour pressure	No data
Vapour density	(>) 1 (AIR=1)
Density	0.849 g/cm ³ @ 68 °F / 20 °C

SAFETY DATA SHEET

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

Page: 9
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

	7.07 lb/gal @ 77 °F / 25 °C
Solubility	No data
Partition coefficient: n-octanol/water	No data
Autoignition temperature	No data

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Incompatible products

Avoid contact with: strong oxidizing agents
Avoid contact with: Strong acids, strong oxidizing agents, alkalis

Hazardous decomposition products

May form: carbon dioxide and carbon monoxide, various hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

TOLUENE	LD 50 Rat: 2,600 - 7,500 mg/kg
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	LD 50 Rat: > 8,000 mg/kg
N-HEXANE	LD 50 Rat: 25 g/kg
XYLENE	LD 50 Rat: 4,300 mg/kg ²

SAFETY DATA SHEET

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

Page: 10
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

CYCLOHEXANE	LD 50 Mouse: 1,300 mg/kg LD 50 Rat: 29,820 mg/kg
n-HEPTANE	LD 50 Rat: > 15,000 mg/kg
ETHYL BENZENE	LD 50 Rat: 3,500 mg/kg
CARBON BLACK	LD 50 Rat: > 15,400 mg/kg

Acute inhalation toxicity

TOLUENE	LC 50 Rat: 8000 ppm, 4 h
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	LC 50 Rat: 3400 ppm, 4 h
N-HEXANE	LC 50 Rat: 48000 ppm, 4 h
CYCLOHEXANE	LC 50 Rat: > 4044 ppm,
n-HEPTANE	LC 50 Rat: 103 g/m ³ , 4 h
ETHYL BENZENE	LC Lo Rat: 4000 ppm, 4 h

Acute dermal toxicity

TOLUENE	LD 50 Rabbit: 12,124 mg/kg
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	LD 50 Rat: > 4,000 mg/kg
N-HEXANE	LD 50 Rabbit: > 1.3 g/kg
XYLENE	LD 50 Rabbit: > 2,000 mg/kg
CYCLOHEXANE	LD 50 Rabbit: > 2.0 g/kg

SAFETY DATA SHEET

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

Page: 11
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

n-HEPTANE LD 50 Rabbit: > 2,000 mg/kg

ETHYL BENZENE LD 50 Rabbit: 15,433 mg/kg

CARBON BLACK LD 50 Rabbit: > 3 g/kg

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

No data

Acute Toxicity to Aquatic Invertebrates

No data

Environmental fate and pathways

No data

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

IMDG:

UN1133, ADHESIVES 3, II

IATA_P:

UN1133, Adhesives 3, II

IATA_C:

UN1133, Adhesives 3, II

SAFETY DATA SHEET

Page: 12
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

CFR_ROAD:

UN1133, Adhesives 3, II

CFR_RAIL:

UN1133, Adhesives 3, II

CFR_INWTR:

UN1133, Adhesives 3, II

Dangerous goods descriptions (if indicated above) may not reflect package size, quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

ETHYL BENZENE

CARBON BLACK

BENZENE

QUARTZ / SAND

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

TOLUENE

BENZENE

SARA Hazard Classification Fire Hazard
 Acute Health Hazard
 Chronic Health Hazard

SARA 313 Component(s)

TOLUENE	108-88-3	55.0337%
N-HEXANE	110-54-3	6.7396%
XYLENE	1330-20-7	3.8946%
CYCLOHEXANE	110-82-7	1.7859%
ETHYL BENZENE	100-41-4	1.1127%

	Health	Flammability	Reactivity	Other
HMIS	1*	3	0	

SAFETY DATA SHEET

AMER HYDROTECH 9053 SPLICE
ADHESIVE 120526

Page: 13
Revision Date: 01/24/2008
Print Date: 7/3/2008
MSDS Number: R0252592
Version: 1.3

NFPA 2 3 0

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).