

SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: BGC-36315
Product Name: Armor Membrane 363 SB Waterproofing
Revision Date: Aug 15, 2018 **Date Printed:** Aug 15, 2018
Version: 2.0 **Supersedes Date:** Feb 21, 2017
Manufacturer's Name: Mar-flex Waterproofing & Building Products
Address: 500 Business Parkway Carlisle, OH, US, 45005
Emergency Phone: Chem-Trec: 1-800-424-9300
Information Phone Number: 513-422-7285
Fax: 513-422-7282
Product/Recommended Uses:

SECTION 2) HAZARDS IDENTIFICATION

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components.

Classification of the Substance or Mixture:

Flammable Liquids, Category 3
Skin Corrosion/Irritation, Category 2
Eye Damage/Irritation, Category 2A
Toxic to Reproduction, Category 2
Specific Target Organ Toxicity (Single Exposure), Narcotic Effects, Category 3

GHS Label Elements:

Hazard symbol:



Signal word: Warning

Hazard Statements:

Flammable liquid and vapor
Harmful if inhaled
Causes skin irritation
Causes eye irritation
May cause drowsiness or dizziness
Suspected of damaging the unborn child
May cause damage to organs (central nervous system, kidney, peripheral nervous system,) through prolonged or repeated exposure

Precautionary Statements:

Keep away from flames and hot surfaces. – No smoking.

Keep container tightly closed.

Ground/Bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist or vapor.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

In case of fire: Use appropriate media to extinguish.

Take off contaminated clothing and wash before reuse.

If exposed or concerned: Get medical advice/attention.

Store in a well-ventilated place.

Keep cool.

Store locked up.

Dispose of contents /container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC): None known

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

Mixture Components

Chemical Identity	CAS Number	%
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Naphtha (petroleum), hydrotreated light (heptane)	64742-49-0	20-30
Toluene	108-88-3	20-30

Composition of naphtha (petroleum), hydrotreated light CAS: 64742-49-0

C7-C8 Alkanes: 60-100%

C7-C8 Cycloalkanes: 5-10%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4) FIRST-AID MEASURES

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, seek immediate medical attention.

Ingestion: Seek medical attention immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person.

Skin contact: Remove contaminated clothing. Wash affected area with large amounts of soap and water. Seek medical attention if irritation or pain persists. Launder clothing before reuse.

Eye contact: In case of eye contact, remove contact lenses and immediately flush eyes with plenty of water for at least 15 minutes while occasionally lifting and lowering eyelids. Seek medical attention if irritation or pain persists.

Notes to Physician: Call your local poison control center for further instructions.

Most important symptoms/effects, acute and delayed:

Potential acute health effects:

Eye contact:	Causes eye irritation.
Inhalation:	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin contact:	Causes skin irritation.
Ingestion:	Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms:

Eye contact:	Adverse symptoms may include: pain or irritation, watering, redness.
Inhalation:	Adverse symptoms may include: nausea or vomiting, headache, drowsiness/fatigue, dizziness.
Skin contact:	Adverse symptoms may include: irritation, redness.
Ingestion:	Adverse symptoms may include: nausea or vomiting.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable extinguishing media: In case of fire, use carbon dioxide, dry powder, or foam.

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from chemical: Vapors accumulations may flash and/or explode if ignited. Keep ignition sources, open flames etc., away from these fumes.

Special firefighting equipment and precautions for firefighters: Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Be careful not to spray water in a straight stream may cause fire to spread. Stay away from heads of containers that have been exposed to intense heat or flame.

Hazardous combustion products: Carbon dioxide, carbon monoxide and trace oxides of sulfur and/or nitrogen.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Extinguish possible sources of ignition.

Methods and materials for containment and cleaning up:

Dike area to contain spill and clean up by absorbing spill with sand, earth, or other noncombustible absorbent material and place in container where applicable. Don't flush into sewers or natural waterways. Dike far ahead of spill for later disposal and contain material as described above.

SECTION 7) HANDLING AND STORAGE

Precautions for safe handling: Wear personal protective equipment. Store in a cool, dry ventilated area away from excessive heat, sparks and open flames. Avoid prolonged or repeated contact with skin and/or breathing of vapors when handling. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Ground all equipment. Do not eat, drink or smoke in areas where material is used. Keep containers closed when not in use.

Conditions for safe storage, including any incompatibilities: Keep tightly closed when not in use. Store in a cool dry place. Store away from incompatible materials.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

C7-C8 Alkanes:

TWA: 1500 mg/m³

Naphtha (petroleum), hydrotreated light (heptane): TWA: 342 ppm (1400 mg/m³) 8 hours (ACGIH TLV)

Toluene:

TWA: 20 ppm 8 hours (ACGIH TLV)

TWA: 200 ppm 8 hours (OSHA PEL Z2)

CEIL: 300 ppm (OSHA PEL Z2)

AMP: 500 ppm 10 minutes (OSHA PEL Z2)

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection:

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

General hygiene considerations: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray or Black Liquid
Odor:	Slight Hydrocarbon
pH:	Not Available
Boiling Point/Range:	Not Available
Melting Point/Range:	Not Available
Flash Point (0 Degrees C):	Not Available
Flammable/Explosion Limits:	Not Available
Vapor Pressure:	Not Available
Solubility:	Not Available
Partition Coefficient: (n-octanol/water)	Not Available
Auto-ignition Temperature:	Not Available
Viscosity:	Not Available
Relative Density:	0.808
Specific Gravity:	Not Available
Explosive Properties:	Not Available

SECTION 10) STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product.

Chemical stability: Material is stable under recommended storage and handling conditions.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Keep away from extreme heat, open flames and sparks. Avoid conditions that favor the formation of excessive mists and/or fumes.

Incompatible materials: Strong oxidizing agents and strong acids.

Hazardous decomposition products: Thermal decomposition may produce carbon monoxide and carbon dioxide. Oxides of carbon when burned.

SECTION 11) TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Acute Toxicity: Mixture Not fully tested.

Heptane: Heptane is a CNS depressant and narcosis at elevated concentrations.

Toluene: LC50 (Rat) Inhalation Vapor=>20mg/l 4hours

LD50 Dermal (Rabbit)= 12267 mg/kg

LD 50 Oral (Rat)= 5580 mg/kg

Irritation/Corrosion:

Skin: Mixture Not fully tested.

Eyes: Mixture Not fully tested.

Respiratory: Mixture Not fully tested.

Toluene: Eyes-Mild irritant (Rabbit)

Skin-Mild irritant (Rabbit)

Sensitization:

Skin: Mixture Not fully tested.

Respiratory: Mixture Not fully tested.

Germ cell mutagenicity: Mixture Not fully tested.

Carcinogenicity

This material contains toluene above 0.1%. IARC has identified toluene as (Group 3)

Reproductive toxicity: Mixture Not fully tested.

Toluene: Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Several studies of workers suggest long-term exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals were largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure.

Teratogenicity: Mixture Not fully tested.

Specific target organ toxicity-single exposure: Mixture Not fully tested.

C7-C8 Alkanes: Category 3 Narcotic effects

C7-C8 Cycloalkanes: Category 3 Narcotic effects

Toluene: Category 3 Narcotic effects

Specific target organ toxicity-repeated exposure: Mixture Not fully tested.

Aspiration hazard: Not available.

Information on likely routes of exposure: Not available.

Potential acute health effects:

Eye contact: Causes eye irritation.

Inhalation: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact: Causes skin irritation.

Ingestion: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Potential chronic health effects: Mixture Not fully tested.

SECTION 12) ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No known significant effects or critical hazards.

SECTION 13) DISPOSAL CONSIDERATIONS

Disposal instructions: The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14) TRANSPORT INFORMATION

Special shipping information: UN1866, Resin Solution, 3, II

SECTION 15) REGULATORY INFORMATION

TSCA Inventory Status:

Chemical components are listed on the TSCA inventory.

SARA Sections 311 & 312

Superfund Amendments & Reauthorization Act of 1986 Title III: Fire, Acute (Immediate) hazard, Chronic (Delayed) hazard

SARA 313

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372: Toluene (CAS: 108-88-3)

CA Prop 65

Warning: This product contains less than 0.1% of a chemical known to the State of CA to cause cancer.

Warning: This product contains less than 1% of a chemical known to the State of CA to cause birth defects or other reproductive harm.

SECTION 16) OTHER INFORMATION

Glossary:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- ESE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

HMIS

Health	* 3
FLAMMABILITY	3
Physical Hazard	0
Personal Protection	J

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

Version 2.0:

Revision Date: Aug 15, 2018

Second Edition.

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