SAFETY DATA SHEET

Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Product Name: Adseal Primer MK60095

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use(s): Coatings, Adhesive

Details of the supplier of the safety data sheet

Manufacturer: Adfast
2685 Diab
Ville Saint-Laurent Quebec H4S 1E7
Canada

Email: servicemtl@adfastcorp.com

Url: http://www.adfastcorp.com

Emergency telephone number

Emergency Contact: **Emergency Spills (CANUTEC):** 613-996-6666
Emergency Spills (CHEMTREC): 800-424-9300

Section 2. Hazards identification

Classification of the substance or mixture

GHS Classification for mixture:

Aspiration Hazard - Category 1
Skin sensitization - Category 1
Serious eye irritation - Category 2A
Flammable Liquids - Category 2

Label elements

Pictograms:

Signal Words:

Danger

Hazard Statements:

Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.

May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary Statements:

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Keep cool.
Ground and bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid breathing fume, gas, vapors, spray, mist.
Wash hands thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, face protection, protective clothing, eye protection.

Response

IF SWALLOWED: Immediately call a POISON CENTER.
If skin irritation or rash occurs: Get medical attention.
If eye irritation persists: Get medical attention.
Do NOT induce vomiting.
IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing.
IF IN EYES: Rinse cautiously with water for several minutes.
IF ON SKIN (or hair): Rinse skin with water or shower
IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use Carbon dioxide. Dry chemical. Foam. Water spray to extinguish.

Storage

Store in a well-ventilated place.
Store locked up.

Disposal

Dispose of contents an approved waste disposal plant.

Section 3. Composition/information on ingredients

Substances

No available data for this section.

Mixtures

Identifiers	Ingredients	Percentage	Classification
67-64-1	Acetone	70% to 90%	
64742-89-8	solvent naphtha (petroleum), light aliph	5% to 10%	
25036-25-3	Bisphenol-A/Epichlorohydrin based Epoxy Resin	3% to 5%	

Section 4. First-Aid Measures

Description of First Aid Measures

In the event of splashes or contact with eyes

Wash eyes with plenty of water. Hold eyelids open to ensure adequate flushing. Remove the contact lenses if worn and easy to do that. Continue rinsing. Seek medical attention if irritation, redness, or any other symptom develops.

In the event of splashes or contact with skin

Take off all contaminated clothing and wash it before reuse. Wash contaminated areas thoroughly with water. If redness or other symptoms occur, seek medical advice / attention.

In the event of ingestion

DO NOT INDUCE VOMITING. If the exposed person is drowsy or unconscious, do not give anything by mouth. If spontaneous vomiting occurs, lean the exposed person forward to reduce the risk of aspiration. Rinse the mouth with water. If after ingestion you feel unwell, seek medical advice. Monitor for breathing difficulties.

In the event of inhalation

Remove person to fresh air and keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt, or waistband. If spontaneous vomiting occurs, lean the exposed person forward to reduce the risk of aspiration. If after inhalation you feel unwell, seek medical advice.

Most important symptoms and effects, both acute and delayed

Eye contact: Causes serious eye irritation.

Skin contact: May cause allergic skin reaction.

Inhalation: No known significant effects or critical hazards.

Ingestion: May be fatal if swallowed and enters airways.

Indication of any immediate medical attention and special treatment needed

Onset of symptoms may be delayed for several hours.

Section 5. Firefighting Measures

Extinguishing media

Suitable Extinguishing Media

The suggested appropriate media: Carbon dioxide. Dry chemical. Foam. Water spray.

Unsuitable Extinguishing Media

High power water jets.

Special hazards arising from the substance or mixture

Specific Hazards Arising from Combustion of Products

Indirect fire hazard: Highly flammable liquid and vapor. Containers can build up pressure if exposed to heat and/or fire. Runoff to sewer may create fire or explosion hazard.

Combustion Products

Carbon dioxide (CO_2). Carbon monoxide (CO). Oxides of nitrogen (NO_x).

Advice for firefighters

Protective Measures for Fire-Fighting

Wear full protective clothing. Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes. Wear protective goggles to prevent contact with eyes. Wear self-contained breathing apparatus.

Special Protective Actions for Fire-Fighters

After fire, flush area with water to prevent re-ignition. Always stay away from tanks engulfed in fire. Avoid being exposed to gas / mist / dust / fume / vapor /spray / particles. Evacuate the people from the area. Isolate hazard area and deny entry. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning.

Other Information for Fire Fighters

Flammability: Highly Flammable liquid and vapor.

Massive fires: Stay away from massive fires such as tanks in fire.

Large fires: In the case of large fires, evacuate residents who are downwind of fire.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid being exposed to gas / mist / dust / fume / vapor /spray / particles. Eliminate all sources of heat and ignition. Evacuate the people from the area. Isolate and restrict access to area until completion of cleanup. Use explosion-proof electrical/ventilating/lighting equipment. Ventilate area with explosion-proof equipment ONLY. Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes. Wear self-contained breathing apparatus or airline.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Large spills: Evacuate the area. If possible, dike the area to prevent spreading.

Absorb with earth, sand, or other non-combustible material. Collect and transfer to a closable container without splash or generating dust / mist for disposal by an appropriate method. Collect liquid with EXPLOSION PROOF pumps. Ensure cleanup is conducted by trained personnel only. Move containers from spill area if there is no risk. Stop leak if safe to do so. Turn leaking containers leak-side up to prevent the escape of liquid.

Reference to other sections

No available data for this section.

Section 7. Handling and Storage

Precautions for safe handling

Avoid being exposed to gas / mist / dust / fume / vapor /spray / particles. Avoid direct contact with the substance (solid / liquid / vapor). Check container for defect or leakage before handling. Do not eat, drink or smoke during handling. Do not handle in a confined space. Do not handle until all safety precautions have been read and understood. Ensure proper electrical grounding procedures are in place. Ensure there is sufficient ventilation of the area. Handle in accordance with all current regulations and standards. Handle in accordance with good industrial hygiene and safety practice. Handle in original packaging. If needed, only use non-sparking tools in the storage area while handling. Keep away from direct sunlight. Keep container tightly closed. No smoking or open flame in storage, use, or handling areas. Protect against physical damage. Report immediately if physical damage, leakage, or spillage occurs. Take action to prevent static discharges. Use explosion proof electrical equipment. Wash any exposed area of body thoroughly after handling. Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Conditions for Safe Storage

Keep away from: Direct sunlight. Electrical equipment. Fire. Heat. Open flame. Sparks. Static electricity.

Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. If needed, only use non-sparking tools in the storage area. Keep container closed when not in use. Store in accordance with all current regulations and standards. Store in an assigned and marked "Flammables area". Store in totally enclosed equipment designed to avoid ignition and human contact. Take action to prevent static discharges. Tanks must be grounded, vented, and should have vapor emission controls. Use explosion-proof electrical/ventilating/lighting equipment. Ventilate area with explosion-proof equipment ONLY.

Suitable Packaging

Store in original container / packaging.

Incompatible Materials

Oxidizing agents.

Specific end use(s)

Adhesive.

Section 8. Exposure Controls / Personal Protection

Control parameters

Control Parameters / Limits for Product

No available data for this section.

Control Parameters / Limits for Component

Acetone

NIOSH REL	TWA 250 ppm(10h). TWA 590 mg/m3(10h).
OSHA PEL 1989	TWA 750 ppm(8h). TWA 1800 mg/m3(8h). STEL 1000 ppm(15min). STEL 2400 mg/m3(15min).
ACGIH TLV	TWA 500 ppm(8h). TWA 1188 mg/m3(8h). STEL 1782 mg/m3(15min). STEL 750 ppm(15min).
OSHA PEL	TWA 1000 ppm(8h). TWA 2400 mg/m3(8h).

Exposure controls

Engineering Measures

Provide adequate general and local exhaust ventilation. Respect the occupational health and safety standards. Take action to prevent static discharges.

Respiratory Protection

Certified self-contained breathing apparatus must be available in case of emergency. In the case of mechanical work (such as grinding and sanding) which dust is generated, wear protective dust mask. Respiratory protection is required if the concentrations exceed the TLV.

Eye/Face Protection

Ensure eye bath is at hand. Wear chemical goggles or face shield.

Skin and Body Protection

Wear appropriate chemical resistant clothing. Clothing should be anti-static.

Hand Protection

Ensure gloves are certified. Wear impermeable gloves.

Hygiene Measures

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.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting point	Not available
Boiling point	Greater than 56°C / 132.8°F
Flash Point	-18°C / -0.4°F Closed cup
Evaporation rate	Not available
Flammability	Not available
Flammability limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Not available
Solubility in other solvents	Not available
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Freezing point	Not available
Evaporation rate w/r/t ether	Not available
Evaporation rate w/r/t butyl acetate	Not available
Relative density w/r/t water	0.821
Relative density w/r/t air	Not available

Other Information

No available data for this section.

Section 10. Chemical Stability & Reactivity Information

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid

Keep away from: Direct sunlight. Electrical equipment. Fire. Heat. Open flame. Sparks. Static electricity. Do not pressurize.

Incompatible Materials

Oxidizing agents.

Hazardous Decomposition Products

This product is stable under normal storage condition.

Section 11. Toxicological Information

Information on toxicological effects

Toxicological Information for Product

Eye contact: Causes serious eye irritation. Adverse symptoms include. Redness. Pain or irritation. Tearing.

Skin contact: May cause allergic skin reaction. Adverse symptoms include. Irritation. Redness.

Ingestion: May be fatal if swallowed and enters airways. Adverse symptoms include. Nausea. Vomiting.

No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, OSHA, or the NTP.

Toxicological Information for Component

solvent naphtha (petroleum), light aliph

Specific target organ toxicity - single exposure	Category 3, Narcotic effects.
LD 50 Oral	4000 mg/kg, Rat.
LC 50 Inhalation	3400 ppm(8h), Rat.
Aspiration Hazard	ASPIRATION HAZARD - Category 1.

Acetone

LD 50 Oral	5800 mg/kg, Rat.

Irritation/Corrosion Information for Product

No available data for this section.

Irritation/Corrosion Information for Component

Acetone

Skin - Mild irritant: 500 mg(24h), Rabbit. 395 mg, Rabbit.
Eyes- Severe irritant: 500 mg(24h), Rabbit.
Eyes- Mild irritant: 186300 ppm, Human. 10 ml, Rabbit.
Eyes - Moderate irritant: 20 mg(24h), Rabbit.

Section 12. Ecological Information

Toxicity

Ecotoxicity Values for Product

No available data for this section.

Ecotoxicity Values for Component

Acetone

EC 50 Algae: 20.565 mg/l(96h), Marine Water, Algae - Ulva pertusa.
Chronic NOEC: 4.95 mg/l(96h) Marine water, Algae - Ulva pertusa. 0.016 ml/L(21 days), Fresh water, Crustaceans - Daphniidae. 0.1 ml/L(21 days), Fresh water, Daphnia - Daphnia magna - Neonate. 5 µg/l(42 days), Marine water, Fish - Gasterosteus aculeatus - Larvae.
Acute LC50: 6000000 µg/l(48h), Fresh Water, Crustaceans - Gammarus pulex. 10000 µg/l(48h), Fresh Water, Daphnia - Daphnia magna. 100 mg/l(96h), Fresh Water, Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling).

solvent naphtha (petroleum), light aliph

Acute LC50: 100000 ppm(96h), Fresh water, Fish - Oncorhynchus mykiss.

Persistence and degradability

No available data for this section.

Bioaccumulative potential

Bioaccumulative Potential for Product

No available data for this section.

Bioaccumulative Potential for Component

Acetone

Log POW: -0.23.
Potential: Low.

solvent naphtha (petroleum), light aliph

BCF: 10 to 2500.
Potential: High.

Mobility in soil

No available data for this section.

Results of PBT and vPvB assessment

No available data for this section.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal Considerations

Waste treatment methods

Waste Disposal Regulation(s) / Operation

United States - RCRA Toxic hazardous waste U List: Ingredient: Acetone (I); 2-Propanone (I). CAS: 67-64-1. Status: Listed. Reference number: U002.

Avoid release to the soil unless officially you are permitted to do that. Disposal, treatment, or recycling of industrial waste must comply with applicable regulations to preserve the environment. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of national pollutant discharge elimination systems. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Users need to pay attention to the possible existence of regional or national regulations regarding disposal. Empty containers or liners may retain some product residues. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally.

Waste Treatment Methods

No available data for this section.

Section 14. Transportation Information

	ADR	IMDG	IATA	DOT
UN number	1133	1133	1133	No available data for this section.
UN proper shipping name	ADHESIVES	ADHESIVES	ADHESIVES	ADHESIVES
Transport hazard class(es)	3	3	3	No available data for this section.
Packing group	II	II	II	No available data for this section.
Environmental hazards	No	No	No	No available data for this section.
Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secureEnsure that persons transporting the product know what to do in the event of an accident or spillage			
Transport in bulk according to Annex II of Marpol and the IBC Code	No available data for this section.			
Other	6024.1 lbs / 2734.9 kg [880.02 gal / 3331.2 L]			

Section 15. Regulatory Information

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

Safety, Health and Environmental Regulations for Product

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed.

Clean Air Act Section 602 Class II Substances: Not listed.

California Prop 65 - BENZENE: Cancer: Yes. Reproductive: Yes. No significant risk level (Ingestion): 6.4 µg/day. No significant risk level (Inhalation): 13 µg/day. Maximum acceptable dosage level (ingestion): 24 µg/day. Maximum acceptable dosage level (inhalation): 49 µg/day.

Californnia Prop 65 - TOLUENE: Reproductive : Yes. Maximum acceptable dosage level (Ingestion): 7000 µg/day. Maximum acceptable dosage level (inhalation): 13000 µg/day.

SARA 311/312: Fire hazard. Immediate (acute) health hazard.

TSCA: All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

DEA List II Chemicals (Essential Chemicals): Not listed.

DEA List I Chemicals (Precursor Chemicals): Not listed.

CERCLA: All components are listed or exempted.

Canada DSL: All components are listed on or are exempt from listing on the Domestic Substance List.

California Prop 65: WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Safety, Health and Environmental Regulations for Component

Acetone

SARA 311/312: %: ≥ 75 - < 90.
Fire Hazard: Yes.
Sudden release of pressure: No.
Reactive: No.
Immediate (acute) Health Hazard: Yes.
Delayed (chronic) health hazard: No.

Right to know: Massachusetts.
New York.
New Jersey.

solvent naphtha (petroleum), light aliph

SARA 311/312: %: ≥ 5 - < 10.
Fire Hazard: Yes.
Sudden release of pressure: No.
Reactive: No.
Immediate (acute) Health Hazard: Yes.
Delayed (chronic) health hazard: No.

Bisphenol-A/Epichlorohydrin based Epoxy Resin

SARA 311/312: %: ≥ 3 - < 5.
Fire Hazard: No.
Sudden release of pressure: No.
Reactive: No.
Immediate (acute) Health Hazard: Yes.
Delayed (chronic) health hazard: No.

Chemical safety assessment

No available data for this section.

Section 16. Other Information

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product

Glossary

No available data for this section.