SAFETY DATA SHEET
ABS Plastic Cement

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Name: ABS Plastic Cement

Product Codes(s): ABS Plastic Cement

Synonyms: ABS/solvent blend

REACH Registration Number: No data available

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

General Use: Cement/glue for bonding ABS components

Uses advised against: No uses advised against

1.3 Details of the supplier and of the safety data sheet

Manufactured By

Ag ProVision, LLC
277 Faison McGowan Road
Kenansville, NC 28349 USA
+1-910-296-0302
customercare@agprovision.com

1.4 Emergency telephone number:

In the continental USA call CHEMTREC: +1-800-424-9300 (24 hours)

Outside the continental USA call CHEMTREC: +1-703-527-3887 (24 hours)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Product definition: Mixture

Classification (Regulation (EC) No 1272/2008)

Flammable liquid - Category 2 [H225]
Eye irritant - Category 2 [H319]
Specific target organ toxicity, single exposure - Category 3 (STOT SE 3) [H336]

2.2 Label Elements

Labeling (Regulation (EC) No 1272/2008)

Hazard Symbols

GHS02 GHS07

Signal Word: Danger

Hazard Statement(s):

H225 - Highly flammable liquid and vapor.
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness.
EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary Statements:

[Prevention]

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 only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing fumes and vapor.
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.

[Response]

P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing.
P312 - Call a POISON CENTER or a doctor if you feel unwell.

[Storage]

P403 + P233 + P235 - Store in well-ventilated place. Keep container tightly closed. Keep cool.
P405 - Store locked up.

[Disposal]

P501 - Dispose of contents in accordance with national and local regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical characterization (preparation)

% by Weight	Ingredient	CAS Number	EC Number	Annex Number	EC Classification
60 - 70	Methyl Ethyl Ketone	78-93-3	201-159-0	606-002-00-3	F, R11; Xi, R36; R66; R67

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

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product fumes or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.

Eyes: Immediately flush eyes with large amounts of water for at least 5 minutes, occasionally lifting upper and lower lids. Remove contact lenses, if present and easy to do, after the first 2 minutes and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Gently wipe product from skin with a damp cloth and continue rinsing for at least 15 minutes. Use lukewarm water if possible. Dried material may be difficult to remove from skin and removal of dried cement may cause dkin damage. Wash contaminated clothing and shoes before reuse. If skin irritation occurs or persists, seek medical attention.

Ingestion: Rinse mouth with water if victim is conscious. Remove dentures, if any. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes eye irritation. Symptoms may include redness, irritation, burning pain, blurred vision and tearing. Vapor can cause eye irritation.

Skin: May cause skin irritation. Prolonged skin exposure may cause chapping and defatting of skin. Not expected to be a sensitizer.

Inhalation: Inhalation of fumes or vapor may cause irritation of the mucous membranes and respiratory tract. Inhalation of high concentrations of vapor may cause narcotic effect, dizziness, headache, nausea and fatigue. May be harmful if inhaled.

Ingestion: Causes gastrointestinal upset and irritation of the upper respiratory tract. May cause headache, dizziness, abdominal pain, diarrhea, nausea and vomiting.

Chronic: Repeated and prolonged contact with skin may result in defatting of skin and dermatitis. Persons with pre-existing respiratory disorders may be more susceptible to the effects of this material. Prolonged or repeated exposure to high concentrations of vapor may result in permanent damage to the central and peripheral nervous system, including the brain.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use media such as water fog, water spray, alcohol-resistant foam, dry chemical and carbon dioxide.

Unsuitable methods of extinction: Using water jets or streams may spread the fire.

5.2 Special hazards arising from the substance or mixture

Flammable liquid! Vapors are heavier than air and can travel along the ground to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Exposure to ignition sources including electronic devices (e.g. cell phones) can ignite vapors, causing a flash fire. Containers can explode if exposed to heat. A vapor/air mixture can create an explosion hazard in confined spaces. During a fire, irritating and toxic gasses may be generated by thermal decomposition or combustion. Symptoms may not be apparent or may be delayed. Seek medical attention.

5.3 Advice for firefighters

Firefighters must wear full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of containers (e.g. cans, drums, etc.). Be aware that burning liquid will float on water. Notify appropriate authorities of potential fire and explosion hazard if liquid enters sewers or waterways.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Approach spill from upwind. Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition. Ventilate the area. NO SMOKING.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Cover with a large quantity of inert absorbent. Do not use combustible materials as absorbent (e.g. saw dust). Collect product using non-sparking tools and place into approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5), Clean contaminated area with soap and water. Do not flush spilled material down the drain.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Keep containers closed when not in use.

Advice on protection against fire and explosion

Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Protect against physical damage. Use explosion proof ventilation. NO SMOKING.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10.5), food, drink and animal foodstuffs. Transfer only to approved containers having correct labeling. Keep container tightly closed when not in use. Protect container against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers of this material may be hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

CAS Number	Ingredient	OSHA PEL - TWA	ACGIH TLV	NIOSH - TWA
78-93-3	Methyl Ethyl Ketone	200 ppm; 590 mg/m3	200 ppm TWA; 300 ppm STEL	200 ppm; 590 mg/m3

8.2 Exposure controls

Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local explosion-proof exhaust is preferable. See Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be recommended by representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Other protective equipment: Protective clothing. Protective boots, if the situation requires.

Respiratory Protection: Always use an approved respirator when vapors pr fumes are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls: Do not empty into drains.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Off-white paste
Odor	Characteristic
Odor Threshold	5.4 ppm (methyl ethyl ketone)
Molecular Weight	Not applicable
Chemical Formula	Not applicable
pH	Data not available
Freezing/Melting Point, Range	-86.64 °C (-124.6 °F) - methyl ethyl ketone
Initial Boiling Point	80 °C (176 °F) @ 760 mm Hg - methyl ethyl ketone
Evaporation Rate	3.8 (n-BuOAc = 1)
Flammability (solid, gas)	Not applicable
Flash Point	-9 °C (15.8 °F) CC - methyl ethyl ketone
Autoignition Temperature	404 °C (759.2 °F) - methyl ethyl ketone
Decomposition Temperature	No data available
Lower Explosive Limit (LEL)	1.8% (V)
Upper Explosive Limit (UEL)	10.1% (V)
Vapor Pressure	12.08 kPa @ 25 °C
Vapor Density	2.4 (Air = 1)
Specific Gravity	0.891
Viscosity	No data available
Solubility in Water	Slight
Partition Coefficient: n-octanol/water	log Pow = 0.29 - methyl ethyl ketone
Volatiles by Volume @ 70 ºF	100%

9.2 Other data
No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity
Vapors may form explosive mixtures with air.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
None known
Hazardous polymerization will not occur.

10.4 Conditions to avoid
Extreme temperatures, heat, sources of ignition, contact with incompatible materials, exposure to light, exposure to air.

10.5 Incompatible materials
Strong oxidizing agents, acids

10.6 Hazardous decomposition products
Thermal decomposition products include oxides of carbon, formaldehyde, acetic acid, peroxides, undefined organic compounds.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity
LD50, rat: 3,400 mg/kg

Acute inhalation toxicity
LC50, rat: 11,700 mg/l, 4 h

Acute dermal toxicity
LD50, rabbit: >8,000 mg/kg

Skin irritation
May cause skin irritation

Eye irritation
Causes eye irritation

Sensitization
No data available

Genotoxicity in vitro
No data available

Mutagenicity
No data available

Specific organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available.

11.2 Further information
Overexposure to methyl ethyl ketone can cause central nervous system disorders, dizziness, inebriation, drop in blood pressure, narcosis and possible impairment of the function of the respiratory and circulatory systems.

The following applies to ketones in general: Inhalation of vapors or fumes cause mucosal irritations, coughing and dyspnea. The absorption of large quantities of material by inhalation or through skin absorption can lead to central nervous system depression (narcosis). Repeated skin contact leads to a degreasing effect with secondary inflammation possible. Toxic effects on the liver and kidneys cannot be excluded after exposure to high ketone concentrations. Inhalation of droplets may result in edema of the respiratory tract.

This product contains no substances listed as carcinogens by ACGIH, IARC, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Acute and prolonged toxicity to fish:	LC50 - Pimephales promelas (Fathead minnow), 96 h: 2,200 mg/l
Acute toxicity to aquatic invertebrates:	EC50 - Daphnia magna (Water flea), 48 h: 5,091 mg/l
Acute toxicity to aquatic plants:	IC50 - Scenedesmus quadricauda (Green algae), 7d: >/= 4,300 mg/l
Acute toxicity to micro-organisms:	EC50 - Pseudomonas putida (Bacteria), 16 h: 1,500 mg/l

12.2 Persistence and degradability
Nodata available

12.3 Bioaccumulation potential
Not expected to bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects
Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

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

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material or runoff and contact with soil, waterways, drains and sewers.

RCRA U-Series: Methyl Ethyl Ketone (CAS #78-93-3); waste number U159

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

USA DOT

Proper Shipping Name:	Flammable liquid, n.o.s. (methyl ethyl ketone)
Hazard Class:	3
UN/NA:	1993
Packing Group:	II
NAERG:	Guide #128
Packaging Authorization:	Non-Bulk: 49 CFR 173.62; Bulk: None
Packaging Exceptions:	None

IMO/IMDG

Proper Shipping Name:	Flammable liquid, n.o.s. (methyl ethyl ketone)
Hazard Class:	3
UN/NA:	1993
Packing Group:	II
Marine Pollutant:	No
EMS Number:	F-E, S-D

ICAO/IATA

Proper Shipping Name:	Flammable liquid, n.o.s. (methyl ethyl ketone)
Hazard Class:	3
UN/NA:	1993
Packing Group:	II
Quantity Limitations:	49 CFR 175.27 and 175.75 - Cargo Aircraft Only: Forbidden 60 L; Passenger Aircraft: Forbidden

RID/ADR

Proper Shipping Name:	Flammable liquid, n.o.s. (methyl ethyl ketone)
Hazard Class:	3
UN/NA:	1993
Packing Group:	II

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture
U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

OSHA Process Safety Management Standard: No chemical in this product is regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: No chemical in this product is regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product is subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

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

SARA 313 Information: None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance

No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification

No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substances:

Methyl Ethyl Ketone (CAS #78-93-3), RQ = 2,268 kg (5,000 lbs)

Clean Air Act (CAA)

This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).
This product does not contain any Class 1 Ozone depletors.
This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

Methyl Ethyl Ketone (CAS #78-93-3) is listed as a Hazardous Substance under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.

Other U.S. State Inventories:

Methyl Ethyl Ketone (CAS #78-93-3) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, ID, IL, ME, MA, MN, NJ, NY, PA, WA.

Canada

WHMIS Hazard Symbol and Classification

B2 - Flammable liquid with flash point less than 38°C (100°F)

D2B - Toxic material causing other toxic effects - eye irritation in animals

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): Methyl Ethyl Ketone (CAS #78-93-3) is listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): Methyl Ethyl Ketone (CAS #78-93-3) is listed on the NPRI.

European Economic Community

Labeling (67/548/EEC to 1999/45/EC):

F - Flammable

Xi - Irritant

Risk Phrases:
R11 - Highly flammable.
R36 - Irritating to eyes.
R66 - Repeated exposure may cause skin dryness or cracking.
R67 - Vapors may cause dizziness or drowsiness.

Safety Phrases:
S2 - Keep out of the reach of children.
S9 - Keep container in a well-ventilated place.
S16 - Keep away from sources of ignition.

WGK, Germany (Water danger/protection): 1

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

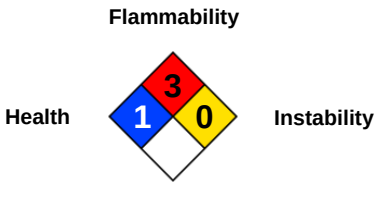
SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

HMIS HAZARD RATING Legend

* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME

National Fire Protection Association (NFPA)



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