

SECTION 1 IDENTIFICATION

Product Name: AMP-UP™ URETHANE Part A

Component: Color Base

Product Use: 2-Component Acrylic Polyurethane

Restriction on Use: Restricted to professional users. Restricted to use of AMP-UP™ URETHANE Part A with AMP-UP™ URETHANE Part B

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SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Health	Environmental	Physical
Skin sensitization, Category 1 Reproductive toxicity, Category 1B Carcinogenicity, Category 2 STOT (repeated exposure), Category 1B		Flammable liquid, Category 2

Label Elements



DANGER!

Contains 2-methoxy-1-methylethyl acetate, ethylbenzene, solvent naphtha (petroleum, medium aliph) and decanedioic acid,bis(1,2,2,6,6-pentamethyl-4-piperidiny)l ester

Highly flammable liquid and vapor

May cause an allergic skin reaction

Suspected of causing cancer.

May damage fertility or the unborn child.

Causes damage to the central nervous system through prolonged or repeated exposure. May cause damage to the hearing organs through prolonged or repeated exposure.

Prevention:

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.

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.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Store in a well-ventilated place. Keep cool.
 Store locked up.

Response:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF exposed or concerned: Get medical advice/attention.
 Specific treatment (see on this label).
 Get medical advice/attention if you feel unwell.
 If skin irritation or rash occurs: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 In case of fire: Use for extinction: CO₂, powder or water spray.

Disposal:

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS#.	WT.%
Dimethyl carbonate	616-38-6	10 – 25
2-methoxyl-1-methylethyl acetate	108-65-6	10 – 20
Barium sulphate, natural	7727-43-7	2.5 – 10
Ethylbenzene	100-41-4	2.5 – 10
Solvent naphtha (petroleum), medium aliph.	64742-88-7	2.5 – 10
Titanium dioxide	13463-67-7	≤2.5
Iron (III) oxide	1309-37-1	≤2.5
Solvent naphtha (petroleum), light aromatic	64742-95-6	0.1 – 2.5
Decandioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester	41556-26-7	0.1 – 1
Zinc compound	Trade secret	0.1 – 1
Xylene	1330-20-7	0.1 – 2.5
Tertiary amine	Trade secret	0.1 – 1

SECTION 4 FIRST AID MEASURERS
General Advice:

Immediately remove any clothing soiled by the product.
 Symptoms of poisoning may even occur after several hours; therefore medical observation is necessary for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.
 In case of unconsciousness place patient stably on side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If irritation occurs, get medical assistance.

After swallowing:

If symptoms persist consult doctor. Do not induce vomiting.

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 5 FIRE FIGHTENING MEASURES**Extinguishing media:****Suitable extinguishing media:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing agents:

Water with full jet

Special hazards arising from the substance or mixture:

During heating or in case of fire poisonous gases are produced.

Advice for firefighters:

Protective equipment: Mouth respiratory protective device.

SECTION 6 ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

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, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7 HANDLING and STORAGE**Handling:****Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s)

No further relevant information available.

Instructions for use: Stir well before using

Mix ratios:

4 part by volume – Part A

1 part by volume – Part B

1 part by volume – Thinner

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION
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Exposure Guidelines: The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. This product may also contain pigments that are otherwise non hazardous according to the US GHS: REFER TO ACGIH TLV NUISANCE PARTICULATE GUIDANCE OF 10 mg/m³ total dust, 5 mg/m³ respirable fraction. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

COMPONENT	CAS#	Exposure Limits
2-methoxyl-1-methylethyl acetate	108-65-6	WEEL Long-term value: 50 ppm
Barium sulphate, natural	7727-43-7	PEL Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction REL Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction TLV Long-term value: 5* mg/m ³ *inhalable fraction; E
Ethylbenzene	100-41-4	PEL Long-term value: 435 mg/m ³ , 100 ppm REL Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm TLV Long-term value: 87 mg/m ³ , 20 ppm BEI
Xylene	1330-20-7	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

Appropriate Engineering Controls: Use adequate general or local exhaust ventilation to minimize exposure levels.

Personal Protective Equipment:

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Adequate ventilation should be used as the first measure to ensure airborne thresholds listed in section 8 of this SDS are not exceeded. If respirators are used, they should be used in accordance with the Hazard Communication Standard.

Gloves: Wear suitable gloves. Impervious gloves. Wear nitrile or natural rubber gloves to protect hands from contact. Butyl gloves are best for prolonged contact.

Eye Protection: Face protection shield required.

Other Protective Equipment: An eye wash and safety shower should be available in the work area.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

Form: Liquid

Odor: Characteristic

pH: Not established

Melting/Freezing Point: Not established

Vapor Pressure: 56 hPa (42 mm Hg)

Vapor Density (AIR=1): Heavier than air

Solubility in Water: Not miscible or difficult to mix

Flammable Limits (vol % in air): >1.5 vol%, <10.8 vol%

Ignition Temperature: 315 °C / 599 °F

Appearance: bronze paint

Odor Threshold: Not established

Boiling Point/Range (@ 760 mmHg): 90.5 °C / 194.9 °F

Relative Density (H₂O=1): 1.345

VOC: 278.2 g/L / 2.32 lb/gal

Evaporation Rate: slower than n-butyl acetate

Flash Point: 16 °C / 60.8 °F

Autoignition Temperature: Not self-igniting

Decomposition Temperature: Not established

SECTION 10 STABILITY and REACTIVITY

Reactivity: Non-reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: None under normal processing.

Conditions to Avoid: Heat, flames and sparks. Exposure to air or moisture over prolonged periods.

Incompatible Materials: Avoid oxidizing agents, strong acids and strong bases.

Hazardous Decomposition Products: Thermal decomposition will release oxides of carbon and nitrogen and hydrocarbons. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity:

64742-95-6 Solvent Naphtha (Petroleum), Light Aromatic

Oral LD50 >6,800 mg/kg (rat) Dermal LD50 >3,400 mg/kg (rab) Inhalative LC50/4 h >10.2 mg/l (rat)

Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)

14807-96-6 Talc (hydrous magnesium silicate) 3

100-41-4 ethylbenzene 2B

13463-67-7 titanium dioxide 2B

1309-37-1 diiron trioxide 3

14808-60-7 Silica, Crystalline 1

1330-20-7 Xylene 3

108-88-3 toluene 3

98-82-8 Cumene 2B

NTP (National Toxicology Program)

14808-60-7 Silica, Crystalline K

98-82-8 Cumene R

OSHA-Ca (Occupational Safety & Health Administration)

No ingredient of this product present at levels higher than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS**Waste treatment methods**

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION**DOT**

Shipping Name: PAINT

UN Number: UN1263

Hazard Class: 3

Packing Group: II

TDG

Shipping Name: PAINT

UN Number: UN1263

Hazard Class: 3

Packing Group: II

IATA

Shipping Name: PAINT

UN Number: UN1263

Hazard Class: 3

Packing Group: II

IMDG

UN Number: UN1263

Hazard Class: 3

Packing Group: II

EmS-No.: F-E, S-E

SECTION 15: REGULATORY INFORMATION

EPA SARA 311 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:

Chemical Name	CAS Number
Barium sulphate, natural	7727-43-7
Ethylbenzene	100-41-4
1,2,4-Trimethylbenzene	95-63-6
Xylene	1330-20-7
Toluene	108-88-3
Cumene	98-82-8
Stoddard solvent	8052-41-3
Methanol	67-56-1

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: This product contains one or more chemicals known to the State of California to cause cancer and/or reproductive harm.

SECTION 16: OTHER INFORMATION

SDS Date of Preparation/Revision: 11/04/2020

NFPA Rating: Health: 2 Fire: 3 Instability: 0

HMIS Rating: Health: *2 Fire: 3 Physical Hazards: 0 Personal Protection: X
**Chronic Health Hazard*

Notice to Reader:

The information provided herein is believed by Autonomic Materials, Inc. ("AMI") to be accurate at the time of preparation or prepared from sources believed to be reliable but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. AMI MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY AMI, except that the product shall conform to AMI's specifications. Nothing contained herein constitutes an offer for the sale of any product.