



TEK - A55 Interleaving Powder

1 Identification

GHS Product Identifier

TEK - A55 Interleaving Powder

Other means of identification

White powder

Recommended use of the chemical and restriction on use

Corrosion inhibitor and mechanical separator for glass

Supplier's details

Teknapack, Inc.
471 Apollo Drive, Suite 10
Lino Lakes, MN 55014
www.teknapack.com

Emergency phone number

1-651-780-0088
(Monday thru Friday; 7:30AM - 3:30PM CST)

2 Hazard(s) identification

Classification of the substance or mixture

Health Hazard	Serious eye irritation	Category 2A
Environmental Hazard	Hazardous to the aquatic environment (acute, short term hazard)	Category 3

GHS label elements



Causes serious eye irritation

Harmful to aquatic life

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands thoroughly after handling.

Avoid release to the environment.

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

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

Other hazards which do not result in classification

May form combustible dust-air mixture if dispersed.

Spillages may be slippery.

Handle in accordance with good industrial hygiene and safety practice.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Poly(Methyl methacrylate/Ethyl acrylate)	9010-88-2		25.01 - 50	This product may or may not contain this polymeric material.
Poly(Methyl methacrylate)	9011-14-7		25.01 - 50	This product may or may not contain this polymeric material.
Adipic Acid	124-04-9	204-673-3	50 - 74.99	

4 First-aid measures

Description of necessary first-aid measures

Inhalation:

Remove the affected individual into fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, seek professional medical attention.

Skin Contact:

Wash thoroughly with soap and water. Wash clothing separately. Seek professional medical attention if irritation develops or persists.

Eye Contact:

Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Seek professional medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. If vomiting occurs naturally, have individual lean forward to reduce risk of aspiration. Seek professional medical attention if ill effects occur.

Most important symptoms/effects, acute and delayed

Inhalation:

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

Skin Contact:

May cause skin irritation. Symptoms may include redness, drying of skin, itching and pain.

Eye Contact:

Causes serious eye irritation. Symptoms may include stinging, scratching, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed, if necessary

General:

Ensure that rescue and medical personnel take precautions to protect themselves.

5 Fire-fighting measures

Suitable extinguishing media

Water mist, Foam, Dry Powder.

Do NOT use a solid water stream as it may scatter and spread fire.

Do NOT use water jet.

Specific hazards arising from the chemical

Carbon monoxides, Carbon dioxides and/or low molecular weight hydrocarbons.

Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

Avoid generating dust.

Move containers from fire area if you can do so without risk. In event of fire, cool tanks with water spray.

Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing, and face mask.

Note:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Dispose of in accordance with local, regional, and national regulations.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery.

Wear personnel protective clothing and equipment. See Sections 7 and 8.

Do not breathe dust.

Remove all sources of ignition.

Environmental precautions

Prevent further spillage if safe to do so.

Avoid discharge into drains and water courses.

Avoid release to the environment.

Methods and materials for containment and cleaning up

Avoid dust formation and dispersal. Potential for dust combustion. Remove all sources of ignition. Ensure adequate ventilation.

Do not create a powder cloud by using compressed air or brisk brushing. Pick up spillage by shovel or using a dust suppressant agent before sweeping.

Dispose of into appropriate container and according to local, regional, and national regulations.

7 Handling and storage

Precautions for safe handling

Do not get material in contact with skin or eyes. Do not breathe dust from this material. Wear appropriate personnel protective clothing and equipment. Wash hands thoroughly after contact. Avoid dust formation and build up. Maintain good industrial hygiene. No smoking. Avoid sources of ignition.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and flame. All equipment used when handling the product must be grounded. Ground and bond containers when transferring material. Take measures to prevent the build up of electrostatic charge. Dry powders can build static electricity charges when subject to the friction of transfer. Keep containers tightly closed in a cool, dry, well ventilated area is best. Tightly closed, ambient temperature and well ventilated storage area is acceptable. Stable under normal conditions of handling and storage. Keep away from food, drink and animal stuffs.

Incompatible products: Strong oxidizing agents. Strong acids and bases. Strong reducing agents.

8 Exposure controls/personal protection

Control parameters

Respirable Dust 5 mg/m³ (OSHA PEL TWA)
 Total Dust 15 mg/m³ (OSHA PEL TWA)

Adipic Acid CAS 124-04-9 No biological exposure limits noted for the ingredient.

Polymer portion of the product, when used as recommended, has all hazardous constituents of the polymer wetted by the polymer system and therefore is unlikely to present exposure under normal conditions of use; the polymer portion requires no monitoring.

However it is recommended:

Poly Methyl Methacrylate CAS 9011-14-7 10 mg/m³ (WEL)

Appropriate engineering controls

It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment).

Use only appropriately classified electrical equipment and powered industrial trucks.

Individual protection measures

Respiratory protection: A suitable dust mask or dust respirator with filter P3 or FFP3 (EN 143 or EN149) may be appropriate. In the unlikely event of formation of particularly high levels of dust, a self contained breathing apparatus may be appropriate.

Skin protection: Appropriate chemical resistant clothing and gloves are recommended. Do not handle molten material without appropriate protective equipment and clothing.

Eye/Face protection: Safety glasses with side shields, safety goggles, or chemical goggles and face shield.

Protective equipment: Safety shower and eyebath should be readily available.

9 Physical and chemical properties

Physical and chemical properties

Form: Solid, powder
 Color: White
 Odor: Typically methacrylate (polymeric)

10 Stability and reactivity

Reactivity

None known. Stable and non-reactive under normal conditions of use, transport, and storage.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Not expected to occur.

Conditions to avoid

Keep away from heat; flames, sparks, high temperatures (above 200^o C).

Minimize dust generation and accumulation. Fine powder may present a dust explosion hazard. Appropriate measures should be taken to control the generation and accumulation of dust. Electric grounding of equipment and the minimization

of ignition sources is required.
Protect from humidity.

Incompatible materials

Strong oxidizing agents. Strong acids and bases. Strong reducing agents.

Hazardous decomposition products

Decomposition may occur under high temperature conditions. Under thermal decomposition, product emits Carbon monoxides, Carbon dioxides, and/or low molecular weight hydrocarbons, Methyl methacrylate, Ethyl acrylate.

11 Toxicological information

Information on the likely routes of exposure

Inhalation, skin, eyes, ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

Dust, irritating to the respiratory tract. Inhalation may cause shortness of breath, tightness of the chest, a sore throat, and cough.

Skin:

May cause skin irritation in susceptible people. Symptoms may include redness, itching, drying, or mechanical irritation to skin.

Eyes:

Polymer particles, like other inert materials, are mechanically irritating to the eyes. Can cause serious eye irritation from acid. Symptoms may include stinging, scratching, tearing, redness, swelling, and blurred vision. If not removed, it will injure eye tissue, which may result in damage.

Ingestion:

May cause temporary irritation of the throat, stomach, and gastrointestinal tract. Ingestion of this product may cause nausea, vomiting, and diarrhea.

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

See Symptoms, above. No chronic effects known.

Numerical measures of toxicity (such as acute toxicity estimates)

Acute Inhalation (Adipic acid only - NOEC)	Rat	7700 mg/m ³ , 4 hrs
Acute Dermal (Adipic acid only - NOEL)	Rabbit	>7940 mg/kg, 24 hrs
Acute Oral (Adipic acid only - LD50)	Rat	5560 mg/kg

Skin corrosion/irritation Classification criteria not met.

Serious eye damage/irritation Causes serious eye irritation; severely irritating. If not removed promptly, will injure eye tissue which may result in permanent damage.

Respiratory/skin sensitization Classification criteria not met.

Carcinogenicity Classification criteria not met.

Other information

When handled appropriately, no adverse health effects are known.

12 Ecological information

Toxicity

Harmful to aquatic life.

Do not allow to enter drains or water courses.

Polymer bead predicted to have low toxicity to aquatic organisms.

Adipic acid data available upon request.

Persistence and degradability

Polymer beads are considered to be non-biodegradable.

Adipic Acid is readily biodegradable.

Bioaccumulative potential

Adipic acid does not bioaccumulate.

Polymer beads have low potential for bioaccumulation.

Mobility in soil

Adipic acid is soluble in water. May be mobile in soil. Data available upon request.

Polymer beads are predicted to have low mobility in soil.

Other adverse effects

None known.

13 Disposal considerations**Disposal methods**

Dispose of spilled material and empty containers in accordance with local regulations for waste that is non-hazardous by Federal definition.

Note: This information applies to the material as manufactured; processing, use or contamination may make this information inappropriate, inaccurate, or incomplete. Incineration may be used to recover energy value.

14 Transport information**UN Number**

Not applicable.

UN Proper Shipping Name

Not applicable.

Transport hazard class(es)

Not applicable.

Packing group, if applicable

Not applicable.

Environmental hazards

See section 12.

Special precautions for user

See section 6, 7, and 8.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

General information: Packages containing less than 5,000 lbs of Adipic acid are not regulated by the United States DOT.

Based upon this, packages containing less than 9,000 lbs of TEK - A55 are also not regulated by the United States DOT.

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

TSCA Inventory:	Ingredients comply; are listed on inventory.
SARA 302:	None
SARA 313:	Ethyl acrylate (Polymer portion of product)
SARA 311/312:	See Section 2
Clean Water Act (CWA):	Hazardous substance under Section 112(r) (40 CFR 86.130) (Adipic acid portion of product)
Canada Domestic Substance List (DSL):	Ingredients comply; are listed on inventory.
US State Regulations:	Substances known to the state of California to cause cancer: Ethyl acrylate (Polymer portion of product). Substances known to the state of California to cause birth defects: None known.

16 Other information

Other information

The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed are the only ones which exist. No warranty of any kind, expressed or implied, is made herein concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. User has sole responsibility to determine the suitability of the materials for any use, and the manner of use contemplated. Use must meet all applicable safety and health standards. User is responsible to advise their workers and the general public of any risks resulting from use of this material.