



# SAFETY DATA SHEET

## ACRYLONITRILE BUTADIENE STYRENE (ABS)

OSHA HCS 16-Section SDS / MSDS Summary | Industrial Manufacturing Grade

### SECTION 1: IDENTIFICATION

<b>Product identifier</b>	ACRYLONITRILE BUTADIENE STYRENE (ABS)
<b>Manufacturer / Distributor</b>	BASEKIM KIMYASAL URUNLER IC VE DIS TICARET LIMITED SIRKETI
<b>Address</b>	ILKBAHAR MAH. FAHREDDIN PASA SK. NO: 6 CANKAYA/ANKARA
<b>Phone number</b>	+903125147055
<b>Emergency phone number</b>	+903125147055
<b>Recommended use</b>	Industrial manufacturing
<b>Restrictions on use</b>	For professional use only

### SECTION 2: HAZARD(S) IDENTIFICATION

<b>GHS classification</b>	Not classified as hazardous under normal handling and storage conditions for solid ABS pellets/resin. Processing dust may cause mechanical irritation and combustible dust risk.
<b>Signal word</b>	WARNING (processing dust / molten material precautions)
<b>GHS pictograms</b>	None required for solid ABS resin as supplied. Use workplace caution labels for dust and hot-melt processing hazards.
<b>Hazard statements</b>	May form combustible dust concentrations in air. Dust may irritate eyes, skin, and respiratory tract. Molten polymer can cause severe thermal burns.
<b>Precautionary statements</b>	Avoid dust generation. Provide local exhaust ventilation during processing. Keep away from ignition sources. Wear eye protection, gloves, and suitable respiratory protection when dust is present.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Typical concentration
Acrylonitrile-butadiene-styrene copolymer	9003-56-9	> 95%
Additives / stabilizers / colorants	Mixture / proprietary	< 5%

Note: This SDS summary is prepared for commercial ABS resin/pellets. Exact additive composition may vary by grade and supplier specification.

### SECTION 4: FIRST-AID MEASURES

<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
<b>Skin contact</b>	Wash with soap and water. For molten material contact, cool affected area with water. Do not remove adhered polymer. Get urgent medical attention for burns.
<b>Inhalation</b>	Move person to fresh air. Keep comfortable for breathing. Seek medical advice if coughing, irritation, or breathing difficulty occurs.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Seek medical attention if



	discomfort occurs.
<b>Symptoms / effects</b>	Dust may cause mechanical irritation. Thermal processing fumes may irritate respiratory tract. Molten material causes thermal burns.
<b>Required treatment</b>	Treat symptomatically. For burns, provide standard burn treatment and medical evaluation.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Water spray, foam, dry chemical powder, or carbon dioxide.
<b>Unsuitable media</b>	Do not use a direct high-pressure water jet on molten polymer.
<b>Specific hazards</b>	Combustion may produce carbon monoxide, carbon dioxide, styrene, acrylonitrile traces, butadiene decomposition products, and dense smoke.
<b>Protective equipment</b>	Firefighters should wear self-contained breathing apparatus and full protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- Avoid creating dust and prevent pellets from entering drains or waterways.
- Use appropriate PPE including safety glasses, gloves, and dust mask/respirator if airborne dust is present.
- Sweep or vacuum spilled pellets into suitable containers for reuse or disposal.
- Eliminate ignition sources where fine dust may be generated. Prevent slip hazards.

## SECTION 7: HANDLING AND STORAGE

<b>Safe handling</b>	Handle in well-ventilated areas. Avoid dust formation, inhalation of processing fumes, and contact with molten material.
<b>Storage conditions</b>	Store in a cool, dry, well-ventilated area away from heat, sparks, flames, and strong oxidizing agents.
<b>Incompatibilities</b>	Strong oxidizing agents, excessive heat, and open flame.
<b>Hygiene measures</b>	Wash hands after handling. Do not eat, drink, or smoke in handling areas.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Substance / parameter	Limit	Source
Particulates not otherwise regulated, total dust	15 mg/m <sup>3</sup>	OSHA PEL
Particulates not otherwise regulated, respirable fraction	5 mg/m <sup>3</sup>	OSHA PEL
Particles not otherwise specified, inhalable	10 mg/m <sup>3</sup>	ACGIH TLV
Particles not otherwise specified, respirable	3 mg/m <sup>3</sup>	ACGIH TLV
<b>Engineering controls</b>	Use general ventilation and local exhaust ventilation during cutting, grinding, extrusion, molding, or other dust/fume-generating operations.	
<b>Eye / face protection</b>	Safety glasses with side shields; goggles where dust is excessive.	
<b>Skin protection</b>	Protective gloves. Heat-resistant gloves for molten polymer.	
<b>Respiratory protection</b>	Use approved particulate respirator where ventilation is insufficient or	



Substance / parameter	Limit	Source
	dust levels may exceed exposure limits.	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid pellets or granules
Color	Natural, white, black, or colored depending on grade
Odor	Slight characteristic polymer odor
pH	Not applicable
Melting / softening range	Approx. 100-120 °C glass transition; processing typically 200-260 °C
Boiling point	Not applicable
Flash point	Not applicable for solid polymer
Density	Approx. 1.03-1.08 g/cm <sup>3</sup>
Solubility in water	Insoluble
Auto-ignition temperature	Not specifically available; avoid high heat and ignition sources
Decomposition temperature	May decompose above recommended processing temperatures

## SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not reactive under recommended handling and storage conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization is not expected.
Conditions to avoid	Excessive heat, open flames, sparks, dust accumulation, and poor ventilation during processing.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, styrene, acrylonitrile traces, butadiene decomposition products, and smoke.

## SECTION 11: TOXICOLOGICAL INFORMATION

Routes of exposure	Eye contact, skin contact, inhalation of dust or processing fumes, ingestion.
Acute effects	Dust may cause mechanical irritation to eyes, skin, and respiratory tract.
Delayed / chronic effects	No chronic effects are expected from normal handling of solid ABS. Repeated exposure to processing fumes should be minimized.
Numerical toxicity	No specific LD50 data established for ABS polymer as supplied.
Carcinogenicity	ABS polymer is not listed as a carcinogen as supplied. Thermal decomposition products may contain hazardous substances; avoid overheating.

## SECTION 12: ECOLOGICAL INFORMATION

ABS is a persistent, water-insoluble polymer. It is not expected to be readily biodegradable. Prevent release of pellets, dust, or residues to soil, drains, and waterways.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of material in accordance with local, regional, national, and international regulations. Reuse or recycle clean polymer where possible. Do not discharge to the environment. Contaminated packaging should be handled according to applicable waste regulations.



## SECTION 14: TRANSPORT INFORMATION

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Transport hazard class</b>	Not regulated
<b>Packing group</b>	Not applicable
<b>Environmental hazards</b>	Not classified as a marine pollutant
<b>Transport precautions</b>	Protect bags or containers from moisture, heat, and physical damage. Prevent pellet loss during transport.

## SECTION 15: REGULATORY INFORMATION

This SDS summary is prepared according to the 16-section SDS format used under the OSHA Hazard Communication Standard. Users must verify final product classification, national inventory status, and local regulatory requirements according to the exact supplied grade, additives, and destination market.

## SECTION 16: OTHER INFORMATION

<b>Date of preparation / last revision</b>	18 May 2026
<b>Prepared for</b>	BASEKIM KIMYASAL URUNLER IC VE DIS TICARET LIMITED SIRKETI
<b>Document type</b>	SDS / MSDS Summary for professional B2B communication
<b>Disclaimer</b>	The information is provided as a safety summary based on general ABS resin data and does not replace the official supplier SDS for a specific commercial grade. The user is responsible for verifying suitability, regulatory compliance, and safe use.