	MSDS	ISSUE DATE	June-2020
	ABS STANDARD GRADES	WWW.TPCO.IR	
		IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612 Page:1/5	

1. Product And Company Identification

a. product names:

SD0140-SD0150-SD0152-SV0157-HR2320-HR2340-HR0370-SH0150-VH0800D-HM0560

Material: ABS (acrylo nitrile-butadiene-styrene) CAS NO.: 9003-56-9

b. chemical name and synonyms :acrylo nitrile-butadiene-styrene resin; acrylonitrile-butadiene-styrenecopolymers;acrylonitrile-1,3-butadiene-styrene polymer; acrylo nitrile, polymer with 1,3-butadiene-styrene resin, ABS; ABS copolymer, ABS plastic, ABS resin, ABS ter polymer

c.general characteristics: pellet in natural or compounded color

d.manufacture's address: Iran-E.Azarbayjan-AzarshahrRoad-TPC-P.O.POX:51745-354 e.toxicological classification: irritating material

2. Composition/Information on Ingredients

a. Acrylo nitrile-Butadiene-Styrene CAS# 9003-56-9 88-95%

Physical danger: airborne dust may form flammable or explosive mixture with air

b. Other Additives > 5-12%

3. Hazard Identification

a. NFPA Ratings: Health: 0 Fire: 1 Reactivity: 0

b. emergency overview:

Physical status: solid, granule, powder

Main health effects: no major effect on target organs has been reported

Physical danger: airborne dust may form flammable or explosive mixture with air

c. potential health effects :

Inhalation: acute exposure: may cause irritation

Chronic exposure: no relevant information found

Skin: acute exposure: may cause irritation

Chronic exposure: no relevant information found

Eye: acute exposure: may cause irritation

Chronic exposure: no applicable information found

Ingestion: acute exposure: no applicable information found

Chronic exposure: no relevant information found

d. carcinogenicity

c. potential health effects:

Inhalation: acute exposure: may cause irritation


Chronic exposure: no relevant information found

Skin: acute exposure: may cause irritation

Chronic exposure: no relevant information found

Eye: acute exposure: may cause irritation

Chronic exposure: no applicable information found

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Ingestion: acute exposure: no applicable information found
 Occupational safety and health administration (OSHA): none
 National toxicology program (NTP): none
 International agency for research on cancer (IARC): none

4. First Aid

a. inhalation

move person to fresh air. Assist breathing if necessary. Consult a physician.

b. skin

Remove contaminated clothing.

Wash affected area with mild soap and water until chemicals are completely removed. (15-20minutes at least). Get medical attention if necessary.

c. eye

Immediately flush eyes with plenty of water while holding eyelids open.

Seek medical attention if irritation persists.

d. ingestion

Dry chemical, carbon dioxide, water spray and foam or water fog.

f. fire fighting instructions:

Material is not expected to be absorbed from the gastrointestinal tract.

Do not induce vomiting unless directed to do so by medical personnel.

5. Fire Fighting Measures

a. fire/explosion hazards

airborne dust may form flammable or explosive mixture with air.

b. flash point: not applicable

c. auto ignition: above 400°C(750°F)

d. upper flammability limits/lower flammability limits: not applicable

e. extinguishing media:

Dry chemical, carbon dioxide, water spray and foam or water fog.

f. fire fighting instructions :

Keep people away. Isolate fire area and de unnecessary entry.

Cool surroundings with water to localize fire zone.

Soak thoroughly with water to cool and prevent re-ignition.


g. hazardous combustion products

Toxic carbon compounds can be produced during combustion.

h. fire fighting equipment

Protective fire fighting clothing (including fire fighting helmet, coat, pants, boots, and gloves),

Positive-pressure self contained breathing apparatus (SCBA)

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6. Accidental Release Measures

a. protect people

Isolate area. Keep unnecessary personnel away.

b. protect the environment

Keep out of irrigation ditches, sewers, and water supplies.

Spills should be collected to prevent contamination of waterways.

c. cleanup: keep unnecessary personnel away. Sweep up.

7. Handling and Storage

a. handling procedures

Good housekeeping and controlling dusts are necessary for safe handling of products.

Avoid friction and keep away from possible ignition sources. Earth the dust containers.

b. storage: store in cool, dry and well-ventilated place.

8. Exposure Controls/Personal Protection

a. ventilation

Provide supplementary local ventilation to control airborne levels.

b. eye protection

Use safety glasses if there is a potential for exposure to particles.

Provide eye washer near workplace.

c. skin protection

Clean body-covering clothing should be needed.

d. protective gloves

Wear chemical-resist gloves.

e. respiratory protection

When respiratory protection is required for certain operations, use approved air-purifying respirator.

Repairable dust=5mg/m³, TLV (TWA) =15mg/m³ (total dust) from OSHA

9. Physical and Chemical Properties

a. physical state and appearance

Pellet in natural or compounded color

b. odor : minimal

c. boiling point : not applicable


d. melting point : not applicable

e. specific gravity or density : 1.05 ~ 1.10

f. molecular weight : 60,000 ~ 200,000

g. chemical formula : (c8-h8.c4-h4.c3-h3-n)x

h. vapor pressure : not applicable

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- i. vapor density : not applicable
- j. solubility : insoluble
- k. ph : not applicable
- l. evaporation rate : not applicable
- m. solvent solubility
Soluble: acetone, methyl-ethyl ketones, dichloromethane
Insoluble: alcohol, aliphatic compound solvents, mineral oil

10. Stability and Reactivity

- a. chemical reactivity : stable
- b. conditions to avoid
Avoid heat, flame, spark and other ignition sources.
Avoid contact with incompatible materials.
- d. chronic toxicity : no relevant information found.
- c. incompatibility with other materials: acids, flammable materials, base, halogenated carbon compounds, oxidizing materials.
- d. hazardous decomposition products: upon heating, cyanides, ammonia, acrylo nitrile, styrene, carbon oxides, nitrogen.
- e. hazardous polymerization: not likely occurs.

11. Toxicological Information


- a. acute oral toxicity : LD50 has not been determined.
- b. acute inhalation toxicity : LC50 has not been determined.
- c. semi-acute toxicity : no relevant information found.
- d. chronic toxicity : no relevant information found.
- e. mutagen city : no relevant information found.
- f. carcinogenicity : no relevant information found.
- g. other toxicity : no relevant information found.

12. Ecological Information

- a. mobility : this product has not been found to migrate through soils.
- b. persistence/degradability : no relevant information found.
- c. bioaccumulation : no relevant information found.

13. Disposal Considerations

- a. regulatory information : none
- b. disposal method :all disposal methods must be in compliance with all federal, state/provincial and local laws and regulations.

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14. Transport Information

A. U.S. Department of Transportation (D.O.T.) Information

Not regulated as a hazardous material for transportation.

B. Canadian TDG Information

Not regulated as a hazardous material for transportation.

C. International Air Transport Association (IATA) Regulation

Not regulated as a hazardous material for transportation.

D. International Maritime Dangerous Goods (IMDG) Code

Not regulated as a hazardous material for transportation.

15. Regulatory Information

This product contains no known toxic chemicals.

16. Other Information

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