## 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'saddress: 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

TABRIZ PETROCHEMICAL COMPANY

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)

TABRIZ PETROCHEMICAL COMPANY

**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

TABRIZ PETROCHEMICAL COMPANY

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.

TABRIZ PETROCHEMICAL COMPANY

## 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

although the information contained in this document is presented in good faith, base on available information believed to be reliable at the time of preparation of this document, TPC makes no warranties or representations with respect to the information or the products described herein, and expressly disclaims all implied warranties and conditions (including all warranties and conditions of merchantability or fitness for a particular purpose).this information is subject to change without notice.
Responsibility for use, storage, handling and disposal of the products described herein, whether alone or in combination with any other substance, is that of the purchaser and/or end user.

TABRIZ PETROCHEMICAL COMPANY